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6. VERMES

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CONTENTS

PAGE

TITLES (for all groups) 2

PLATYHELMINTHES, NEMERTINEA, MESOZOA

SUBJECT INDEX 62

SYSTEMATIC INDEX 75

NEMATHELMINTHES

SUBJECT INDEX 93

SYSTEMATIC INDEX 105

ROTIFERA, GASTROTRICHA, ECHINODERA, CHAETOGNATHA

SUBJECT INDEX 124

SYSTEMATIC INDEX 125

ANNELIDA, GEPHYREA, CONODONTA, SCOLECODONTA

SUBJECT INDEX 126

SYSTEMATIC INDEX 130

TITLES I.

The year of publication is omitted where it is the same as the volume year of the "Record", namely (1957).

Anon. How to collect parasites. First Symposium on host specificity among parasites of vertebrates, Neuchatel Univ., Internat. Union Biol. Sci. (B) No. 32 : 318–324.

Abadie, S. H. *see* Jones, C. A.

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Al-Hafidh, R. *see* Watson, J. M.

Allain, D. S. *see* Sadun, E. H.

Allen, M. W. (**1**). A review of the nematode genus *Trichodorus* with descriptions of ten new species. Nematologica **2** : 32–62 11 figs.

Allen, M. W. (**2**). A new species of the genus *Dolichodorus* from California (Nematoda : Tylenchida). Proc. Helm. Soc. Wash. **24** : 95–98 1 fig.

Allgén, C. A. (**1**). Vergleich zwischen den marinen Nematodenfaunen Norwegens und der Tropen I–II. K. norske vidensk. Selsk. Forh. **29** : 36–46.

Allgén, C. A. (**2**). Miscellanea nematodologica I. Zool. Anz. **158** : 172–179 4 figs.

Althaus, B. (**1**). Faunistisch-ökologische Studien an Rotatorien salzhaltiger Gewässer Mitteldeutschlands. Wiss. Z. M. Luther Univ. Halle-Wittenburg. Math.-Nat. R. **6** : 117–157 57 figs.

Althaus, B. (**2**). Faunistisch ökologische Studien an Rotatorien salzhaltiger Gewässer Mitteldeutschlands (Nachtrag). Wiss. Z. M. Luther Univ. Halle-Wittenberg Math.-Nat. R. **6** : 459–460 3 figs.

Althaus, B. (**3**). Neue Sandbodenrotatorien aus dem Schwarzen Meer. Wiss. Z. M. Luther Univ. Halle-Wittenberg. Math. Nat. R. **6** : 445–457 16 figs.

Alvariño, A. (**1**). Estudio del zooplancton del Mediterraneo Occidental. Bol. Inst. esp. Oceanogr. No. 81 : 1–26 9 figs.

Alvariño, A.— (**2**). Zooplancton del Atlantico Iberico. Campaña del "Xauen" en el verano del 1954. Bol. Inst. esp. Oceanogr. No. 82 : 27–51 7 figs.

Ameel, D. J. *see* Cort, W. W.

Anantaraman, M. *see* Krishnaswami, S. K.

Anderson, R. C. (**1**). Observations on the life cycles of *Diplotriaenoides translucidus* and members of the genus *Diplotriaena*. Canad. J. Zool. **35** : 15–24 15 figs.

Anderson, R. C. (**2**). Taxonomic studies on the genera *Aproctella* Cram, 1931 and *Carinema* Pereira and Vaz, 1933 with a proposal for a new genus *Pseudaproctella* n. gen. Canad. J. Zool. **35** : 25–33 9 figs.

Anderson, R. C. (**3**). The life cycles of dipetalonematid nematodes (Filarioidea, Dipetalonematidae): The problem of their evolution. J. Helminth. **31** : 203–224.

Anderson, R. I. *see* Naimark, D. H.

Andrássy, I. (**1**). Die Rauminhalts und Gewichtsbestimmung der Fadenwürmer (Nematoden). Arch. zool., Budapest **2** 1956 : 1–15 2 figs.

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Andrássy, I. (**4**). *Aphelenchoides citri* n. sp., ein neuer Wurzelparasit der Zitrone. Nematologica **2** : 238–241 2 figs.

André, F. (**1**). Deux nouvelles stations de *Dendrobaena mammalis* Sav. (Oligochètes Lombriciens). Bull. Soc. zool. Fr. **82** : 254–255.

André, F. (**2**). Aptitude naturelle au développement parthénogénétique partiel chez le Lombricien *Eisenia foetida*. C.R. Acad. Sci. Paris **245** : 1341–1343.

Anteunis, A. *Leucochloridium paradoxum* en Belgique. Ann. Soc. zool. Belg. **87** : 5–8 1 fig.

Apel, A. and **Kämpfe,** L. (**1**). Beziehungen zwischen Wirt und Parasit im Infectionsverlauf von *Heterodera schachtii* Schmidt in kurzfristigen Topfversuchen, I. Infektionsgang bei verschiedenen Wirtspflanzen. Nematologica **2** : 131–143 5 figs.

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Babero B. B. (**1**). Some helminths from Illinois opossums. J. Parasit. **43** : 232.

Babero B. B. (**2**). *Ascaris laevis* migration in experimental hosts. J. Parasit. **43** 5 Sect. 2 : 45. [Abstract].

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Bachofer C. S. *see* Pahl, G.

Baer J. G. (**1**). Parasitic helminths collected in West Greenland. Medd. Grønland **124** 10 1956 : 1–55 64 figs.

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Bartsch, A. Das Doppeltier *Diplozoon paradoxum*, ein Fischparasit. Mikrokosmos **46** : 122–124 5 figs.

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Baugh, S. C. On the morphology of *Neogyrodactylus indicus* n. g., n. sp., a viviparous monogenetic nematode (fam. Gyrodactylidae) from *Argulus indicus* Weber. Parasitology **47** : 40–45 6 figs.

Bauman, P. M. *see* Herman, C. M.

Beadle, L. C. Respiration in the African swampworm *Alma emini* Mich. J. exp. Biol. **34** : 1–10 4 figs.

Beamer, P. D. *see* Levine, N. D.

Bearup, A. J. (**1**). Experimental vectors of the first larval stage of *Dibothoicephalus latus* (Cestoda) in Australia. Aust. J. exp. Biol. med. Sci. **35** : 187–191.

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Bennett, H. S. *see* Roberts, E. D. P. De.

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Bezubik, B. (**1**). Studies on *Polymorphus minutus* (Goeze, 1782)—syn. *Polymorphus magnus* Skrjabin, 1913. Acta Parasit. polon. **5** : 1–8.

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Bibawi, E. *see* Arafa, M. A.

Bieri, R. Chaetognath fauna off Peru in 1941. Pacif. Sci. **11** : 255–264 14 figs.

Biguet, J. *see* Deblock, S.

Biocca, E. (**1**). *Angiostrongylus chabaudi* n. sp., parassita del cuore e dei vasi polmonari del gatto silvatico (*Felis silvestris*). R.C. Accad. Lincei (8) **22** : 526–532 6 figs.

Biocca, E. (**2**). Ridescrizione di *Necator muridis* (Parona 1907). Annu. 1st Zool. Univ. Napoli **8** N. 2 1956 1–8 4 figs.

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Biocca, E. *see* Le Roux, P.

Birchfield, W. *see* Chitwood, B. G.

Bird, A. F. Chemical composition of the nematode cuticle. Observations on individual layers and extracts from these layers in *Ascaris lumbricoides* cuticle. Exper. Parasit. **6** : 383–403 5 figs.

Bird, A. F. and **Deutsch,** K. The structure of the cuticle of *Ascaris lumbricoides* var. *suis*. Parasitology **47** : 319–328 3 pls.

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Bisseru, B. (**4**). On the genus *Opisthorchis* R. Blanchard 1895, with a note on the occurrence of *O. geminus* (Looss, 1896) in new avian hosts. J. Helminth. **31** : 187–202 2 figs.

Bizzell, W. E. *see* Ciordia, H.

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Bradbury, S. (**2**). A histochemical study of the pigment cells of the leech, *Glossiphonia complanata.* Quart. J. micr. Sci. **98** : 301–313 4 figs.

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Yamashita, J. *see* Rausch, R.

Yeatter, R. E. *see* Ecke, D. H.

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Yeh, L. S. (**3**). On *Chandlerella braziliensis* n. sp. from a green-billed toucan and a discussion on some related genera. J. Helminth. **31** : 33–38 4 figs.

Yeh, L. S. (**4**). On a filarial parasite, *Deraiophoronema freitaslenti* n. sp., from the giant anteater *Myrmecophaga tridactyla* from British Guiana, a proposed reclassification of *Dipetalonema* and related genera. Parasitology **47** : 196–205 9 figs.

Yeh, L. S. (**5**). On a new paramphistomid trematode, *Gigantocotyle lerouxi* sp. n., from the stomach of the red lechwe, *Onotragus leche* from Northern Rhodesia. Parasitology **47** : 432–434 1 fig.

Yeh, L. S. (**6**). Studies on a trematode and a new nematode from a bat from Northern Rhodesia. J. Helminth. **31** : 121–125 5 figs.

Yeh, L. S. (**7**). On a new nematode, *Spirocamallanus mazabukae* sp. nov., from freshwater fish in Southern Africa. J. Helminth. **31** : 126–130 5 figs.

Yeh, L. S. (**8**). A collection of helminths from the great bustard, *Otis tarda* from Spain, with a description of a new species of *Oxyspirura* (Nematoda). Proc. zool. Soc. Lond. **128** : 279–286 14 figs.

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Zajonc, I. (**1**). Neue Erkenntnisse über die Regenwürmer der Beskyden (Oligochaeta–Lumbricidae). Prirod. Sb. Ostravsk. Kraje **18** : 161–169 5 figs.

Zajonc, I. (**2**). Regenwürmer (Lumbricidae) aus der Umgebung der Polana-Birge. Biológica, Bratislava **12** : 552–555 1 fig. [German summary].

Zamith, A. P. L. *see* Lordello, L. G. E.

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PLATYHELMINTHES
NEMERTINA
MESOZOA

SUBJECT INDEX

GENERAL

Monograph.—On Dalyelliidae, **Luther,** A. (**1**).

Reviews.—Parasitology in the Arctic, **Cameron,** T. W. M. ; Interrelations between nutrition and infectious disease, **Chandler,** A. C. ; Review of fish parasitology in Poland, **Grabda,** E. ; Control of human hel-

minthiasis in Poland, **Janicki,** M. ; Survey of medical parasitological research in Poland during 1954–56. **Kozar,** Z. (**3**) ; Problems of immunity in parasitic diseases, **Kozar,** Z. (**2**) ; First Congress of Polish Parasitologists, **Kozar,** Z. (**1**) ; Helminths of man, **Leikina,** E. S. ; Medical parasitology in Poland, **Morzycki,** J. ; Survey of general parasitological research in Poland during 1954–56, **Poluszynski,** G. ; *Fasciolopsis buski* and *Opisthorchis viverrini* in tropical public health, **Sadun,** E. H. ; Problems of schistosomiasis in Central Africa, **Schwetz,** J. (**2**) ; Problems in modern helminthology, **Skrjabin,** K. I. ; Parasitological problems in post-war Poland, **Stefanski,** W. (**1**) ; Parasitological research in Poland, **Stefanski,** W. (**2**) ; Symposium on helminth infections of man, **Stoll,** N. R. (**2**) ; Ecological problems in parasitology, **Wisniewski,** W. L. (**1**) ; Veterinary parasitology in Poland, **Zarnowski,** E. (**1**) ; Survey of veterinary parasitological research in Poland during 1954–56. **Zarnowski,** E. (**2**).

Bibliography.—Of helminthology in Venezuela between 1926 and 1955, **Gutierrez Alfaro,** J. J. and **Iriarte,** D. R.

Biography.—Early studies of Dr. Iturbe on biology of *Schistosoma mansoni* in Venezuela, **Pérez,** A. M. ; K. I. Skrjabin—founder of Soviet helminthology, **Shikhobalova,** N. P. (**2**) ; St. Delle Chiaje, **Stroppiana,** L.

Historical.—Discovery of liver-fluke life-history. **Reinhard,** E. G.

Classification ; Nomenclature.—Systematics of the genus *Myozona*, **Ax,** P. (**5**) ; Review of the genus *Rogneda*, **Karling,** T. G. (**1**) ; Review of the family Dalyelliidae, **Luther,** A. (**1**) ; Systematic position of the genus *Catenula*, **Nuttycombe,** J. W. ; Systematics of the genus *Opisthorchis*, **Bisseru,** B. (**4**) ; Morphology of *Leucochloridium* and its importance in classification, **Bychowskaya-Pavlovskaya,** I. E. ; Taxonomic note on the genus *Acanthatrium*, **Cheng,** T. C. (**1**) ; Constitution of the genus *Acanthatrium*, **Cheng,** T. C. (**3**) ; Affinities of the genus *Pholeter* and the constitution of the family Troglotrematidae, **Dollfus,** R. P. (**7**) ; Differential key to macrocercous cercariae, **Dunagan,** T. T. (**1**) ; Systematics of the genus *Apatemon*, **Dubois,** G. & **Fain,** A. ; Taxonomy of *Kuhnia scombri*, **Llewellyn,** J. (**4**) ; New classification of the digenetic Trematoda, **La Rue,** G. R. ; Systematic note on the genus *Gyrodactylus*, **Malmberg,** G. (**1**) ; Review of the genus *Allocreadium*, **Peters,** L. E. (**1**) ; Taxonomy of the genus *Episthmium*, **Shigin,** A. A. ; *Psilochasmus* an aberrant echinostome, **Szidat,** L. (**3**) ; Review of *Raillietina* in man, monkeys and rodents, **Chandler,** A. C. and **Pradatsundarasar,** A. ; New classification of tetraphyllidean cestodes, **Euzet,** L. (**1**), (**3**) ; Systematic position of the genus *Deltokeras*, **Mahon,** J. (**2**) ; Systematic position of the genus *Thysanocephalum*, **Meade-Thomas,** G. & **Riser,** N. W. ; Comparative table of *Diorchis* spp. from Ralliformes, **Rybicka,** K. ; Differentiation of *Echinococcus multilocularis* and *E. granulosus*, **Vogel,** H. ; Identification of plerocercoids of *Diphyllobothrium*, **Wikgren,** B. J. & **Muroma,** E. ; Generic relationships within the Palaeonemertini, **Hylbom,** R.

Technique ; Methods.—Collection and preservation of helminths, **Anon.** ; Methods for demonstrating helminth eggs in faeces, **Biagi F.,** F. & **Portilla,** J. ; Maintenance *in vitro* of *Haplometra cylindracea*, **Dawes,** B. & **Muller,** R. ; Technique for specific diagnosis of mammalian schistosomiasis, **Dutt,** S. C. & **Srivastava,** H. D. ; Machine for separating helminth eggs from faeces, **Hill,** C. H. & **Zimmerman,** R. E. ; Trichrome stain method for helminths, **Horen,** W. P. ; Diagnosis of trematodes in man **Hunter,** G. W. et al ; Application of Graham's method for *Taenia pisiformis* in dogs, **Mazzotti,** L. & **Hiranaka,** H. ; Spring-clips in mounting helminths, **Meyer,** M. C. ; Method for determining viability of *Echinococcus* eggs, **Meyers,** H. F. ; Storage of live schistosome eggs, **Newsome,** J. (**2**) ; Simplified formol-ether method for concentrating eggs in faeces, **Ridley,** D. S. & **Hawgood,** B. C. ; Maintenance of immature *Schistosoma mansoni in vitro*, **Robinson,** D. L. H. ; Maintenance *in vitro* of *Fasciola hepatica*, **Rohrbacher,** G. H. (**3**) ; Method for

sampling water for cercariae, **Rowan,** W. B. (**1**) ; Recognition of trematode infection in snails, **Willey,** C. H. & **Gross,** P. R. ; Comparison of CDF and McMaster helminth egg-counting techniques, **Wilson,** G. I.

Obituary.—†C. Wesenberg-Lund, **Berg,** K. ; †J. Rodhain, **Dubois,** A. ; †E. B. Cram, **Schwartz,** B. ; †J. W. Scott, **Scott,** J. P.

STRUCTURE

General.—Morphological note on *Acanthatrium*, **Cheng,** T. C. (**1**) ; Variations in *Hymenolepis serrula*, **Cox,** D. D. et al. ; Morphological notes on *Asymphylodora tincae*, **Deblock,** S. et al. ; Corrections to anatomical accounts of freshwater planarians in text-books, **Hyman,** L. H. (**3**) ; Anatomy of the genus *Rogneda*, **Karling,** T. G. (**1**) ; Anatomy of pelagic nemertines, **Korotkevitsch,** V. S. ; Morphology of the Dalyelliids, **Luther,** A. (**1**) ; Anatomy of *Gyrodactylus*, **Malmberg,** G. (**1**) ; Morphological variation in *Hymenolepis nana*, **Schiller,** E. L. (**2**) ; Morphology of the genus *Diplozoon*, **Sterba,** G. ; Morphology of axinid Monogenea, **Unnithan,** R. V. ; Morphology of *Gyrodactylus* and *Dactylogyrus*, **Wood,** R. A. & **Mizelle,** J. D.

Larval structure. — Epidermal structure of mammalian schistosome miracidia, **Dutt,** S. C. & **Srivastava,** H. D. ; Penetration gland-cells in onchosphere of *Raillietina cesticillus* and *Davainea proglottina*, **Enigk,** K. & **Sticinsky, L.** E. ; Larvae of *Microcotyle* spp., France, **Euzet,** L. (**2**) ; Larva of *Calicotyle kroyeri*, **Euzet,** L. (**4**) ; Oncomiracidia of Monogenea, **Euzet,** L. (**5**) ; Immature stages in cyclophyllidean cestodes, **Freeman,** R. S. ; Oncomiracidia of Monogenea, **Llewellyn,** J. (**3**) ; Cercaria in the genus *Allocreadium*, **Peters,** L. E. (**2**) ; Morphology of *Fasciola gigantica* cercaria, **Sarwar,** M. M. & **Rauf,** A. ; Morphology of miracidia in Gorgoderid trematodes, **Wotton,** D. & **Peters,** L.

Musculature.—Development of contractile fibres in Cestodes, **Logachev** (**1**).

Excretory system.—In *Fasciola gigantica*, **Kuntz,** R. E. (**2**).

Nervous system.—In *Thysanocephalum thysanocephalum*, **Meade-Thomas,** G. & **Riser,** N. W.

Reproductive system.—Abnormality of genital atrium in *Ochetosoma valida*, **Goodman,** J. D. ; Variations in male glands of *Schistosoma japonicum*, **Hsü,** H. F. & **Li Hsü,** S. Y. (**1**) ; Uterus of *Paricterotaenia* and related genera, **Bona,** F. V. ; Unusual structure of uterus in *Hymenolepis macyi*, **Davis,** B. S. & **Voge,** M. ; Variations in testes of Hymenolepididae, **Oswald,** H. V.

Organs of attachment.—Homologies of the sclerites of *Hexostoma*, **Hargis,** W. J. (**2**); Comparative morphology of adhesive organs in some monogenea from gills of fish, **Llewellyn,** J. (**1**) ; Posterior adhesive organs of *Kuhnia scombri*, **Llewellyn,** J. (**4**).

Histology ; **Cytology.**—Entodermal cells in Turbellaria, **Ax,** P. (**7**) ; Chromosomes in 6 biotypes of *Dugesia lugubris*, **Benazzi,** M. (**3**) ; Embryonic envelopes in *Paricterotaenia porosa*, **Bona,** F. V. ; Histology of *Schistosoma mansoni*, **Gönnert,** R. ; Rhabdites in *Lineus ruber*, **Gontcharoff,** M. (**2**) ; 20 diploid chromosomes in *Taenia saginata*, **Jones,** A. W. & **Wyant,** K. D. ; Chromosomes in *Hymenolepis diminuta*, **Kisner,** R. L. ; Chromosomes in 3 races of *Dugesia etrusca*, **Lentati,** G. B. ; Mitotic activity in *Euplanaria polychroa*, **Lindh,** N. O. ; Structure of vitellaria in *Diphyllobothrium latum*, **Logachev,** E. D. (**2**) ; Chromosomes in *Acetodextra amiuri*, **Perkins,** K. W. ; Vitelline and germ-cells in *Fasciola hepatica*, **Ranzoli,** F. ; Chromosomes in *Schistosomatium douthitti*, **Short,** R. B. (**1**) ; Chromosomes in *Schistosomatium douthitti*, **Short,** R. B. (**2**) ; Ultra-structure of vitelline cells in *Haematoloechus*, **Tulloch,** G. S. & **Shapiro,** J. E.

Abnormality.—Tri-radiate *Taenia saginata*, **Starkoff,** O. ; Abnormal proglottid of *Taenia hydatigena*, **Sweatman,** G. K. & **Plummer,** P. J. G.

PHYSIOLOGY

General.—Physiological notes on *Fasciola hepatica*, **Rohrbacher,** G. H. (**3**).

Alimentation.—In Turbellaria, **Jennings,** J. B.

Constitution ; Metabolism.—Metabolism of scolices from hydatid cysts of *Echinococcus granulosus*, **Agosin,** M. ; Metabolism in *Echinococcus granulosus*, **Agosin,** M. et al. ; Intermediary metabolism in helminths, **Brand,** T. von ; Anti-P agglutinins in human hydatid, **Cameron,** G. L. & **Staveley,** J. M. ; Methionine absorption by *Hymenolepis diminuta*, **Daugherty,** J. W. (**1**) ; Absorption of metabolites by *Hymenolepis diminuta*, **Daugherty,** J. W. (**2**) ; Amino acid absorption by cestodes, **Daugherty,** J. W. & **Foster,** W. B. ; Phosphatase activity in cestodes, **Erasmus,** D. A. (**1**), (**2**) ; Amino acid metabolism in cestodes, **Foster,** W. B. & **Daugherty,** J. W. ; Transamination in *Schistosoma mansoni*, **Garson,** S. & **Williams,** J. S. ; Acid and alkaline glycerophosphatase activity in *Hymenolepis nana*, **Gilford,** J. H. ; Carbohydrate metabolism in trematodes, **Goil,** M. M. ; Desoxyribonucleic acid in somatic and germinal cells of *Fasciola hepatica*, **Govaert,** J. ; Amino acids in *Hymenolepis diminuta*, **Goodchild,** C. G. & **Wells,** O. C. ; Glycogen in *Hymenolepis diminuta* and *Raillietina cesticillus* **Hedrick,** R. M. & **Daugherty,** J. W. ; Glycogen in hymenolepidid cysticercoids, **Heyneman,** D. & **Voge,** M. ; Mucoid and rhabdoid secretions in Turbellaria, **Jennings,** J. B. ; Cholinesterase in *Prostoma rubrum*, **Kamemoto,** F. I. ; Protein-complexes in *Raillietina cesticillus*, **Kent,** H. N. (**3**) ; Proteins in *Hymenolepis diminuta*, **Kent,** H. N. (**2**) ; Porphyrin in a planarian, **Krugelis-Macrae,** E. ; Carbohydrate metabolism in cestodes, **Laurie,** J. S. ; Phenol oxidase in *Fasciola hepatica*, **Mansour,** T. E. ; Alkaline phosphatase in Turbellaria, **Osborne,** P. J. ; Aldolase in *Taenia crassiceps*, **Phifer,** K. ; Nitrogen and phosphorus content of *Schistosoma mansoni*, **Radke,** M. G. et al. ; Carbohydrate metabolism in *Hymenolepis*, **Read,** C. P. & **Rothman,** A. H. (**2**) ; Carbohydrate metabolism in cestodes from dog-fish. **Read,** C. P. (**2**) ; Histochemistry of acetabular gland-complex secretions in *Schistosoma mansoni* cercaria, **Stirewalt,** M. A. ; Lipid fraction of *Hymenolepis diminuta*, **Warren,** McW. & **Daugherty,** J. ; Histochemistry of *Dendrocoelopsis* sp., **Yamamoto,** T. S.

Vitality.—Growth of *Raillietina kashiwarensis* in chickens, **Sawada,** I.

Environmental effects.—Resistance of mutilated planarians to lithium chloride, **Bondi,** C. ; Effect of insulin on cephalic regeneration in *Dugesia gonocephala*, **Kanatani,** H. (**3**) ; Effects of heparin on fission in *Dugesia gonocephala*, **Kanatani,** H. (**4**) ; Effects of crowding on eye-formation and fission in *Dugesia gonocephala*, **Kanatani,** H. (**1**), (**2**) ; Colchicine inhibition of regeneration in a planarian, **McWhinnie,** M. A. & **Gleason,** M. M. ; Effect of low temperatures on sex organs in *Dugesia gonocephala*, **Okugawa,** K. I. (**1**) ; Reactions of *Stenostomum* to vital staining, **Pullen,** E. W. ; Effect of starvation on pigmentation in planarians, **Teshirogi,** W. & **Maida,** J. ; Effects of irradiation on regeneration in planarians, **Wolff,** E. ; Effects of castration and glucose supplement on sex ratio of *Schistosoma mansoni* in mice, **Berg,** E. ; Influence of host-environment on helminths of game-birds, **Kasimov,** G. B. (**1**) ; Effect of PAS technique on egg-shell of *Schistosoma mansoni*, **Katz,** F. F. & **Carrera,** G. M. ; Effects of culturing on development of *Triaenophorus lucii* eggs, **Pojmanska,** T. (**2**) ; Effect of carbohydrate diet on *Hymenolepis diminuta* in rat, **Read,** C. P. & **Rothman,** A. H. (**1**) ; Effect of testosterone on hermaphrodism in *Schistosoma mansoni*, **Robinson,** E. J. ; Effect of irradiation on *Hymenolepis nana*, **Schiller,** E. L. (**2**) ; Effect of high temperatures on *Hymenolepis* larvae, **Voge,** M. & **Heynemann,** D. (**1**) ; Phototropism in *Lineus* spp. during eye-regeneration, **Gontcharoff,** M. (**1**).

REPRODUCTION AND DEVELOPMENT

Reproduction.—Asexual reproduction in *Polycelis felina*, **Dahm,** A. G. (**2**) ; Fertilization and maturation in new *Baerietta* sp., **Douglas,** L. T. (**1**) ; Mechanism of sexual reproduction in planarians, **Nobili,** R. ; Reproduction and development in *Rhynchodemus sylvaticus*, **Ogren,** R. E.

(**3**) ; Fission of *Dugesia gonocephala*, **Okugawa,** K. I. & **Kawakatsu,** M. (**1**).

Gametogenesis.— Spermatogenesis in nematotaeniid cestodes, **Douglas,** L. T. (**2**) ; Spermateleosis in *Fasciola hepatica*, **Gresson,** R. A. R. ; Gametogenesis in *Schistosomatium douthitti*, **Nez,** M. M. & **Short,** R. B. ; Gametogenesis in *Acetodextra amiuri*, **Perkins,** K. W.

Development.—Some development of *Cercaria splendens* in *Gasterosteus pungitius*, Holland, **Broek,** E. van den ; Development of *Paramphistomum sukari* in *Biomphalaria pfeifferi*, **Dinnik,** J. A. & **Dinnik,** A. A. ; Early cleavage in new *Baerietta* sp., **Douglas,** L. T. (**1**) ; Early development of *Lineus torquatus*, **Iwata,** F. ; Embryonic development of *Diphyllobothrium latum*, **Johri** L. N. (**3**) ; Development of *Fasciola gigantica* cercariae, **Kuntz,** R. E. (**2**) ; Development in the family Gyrodactylidae, **Malmberg,** G. (**2**) ; Embryonic development of *Oochoristica symmetrica*, **Ogren,** R. E. (**4**) ; Development of *Oochoristica symmetrica* onchospheres, **Ogren,** R. E. (**1**) ; Embryonic development of *Proteocephalus*, **Ogren,** R. E. (**2**) ; *In vitro* development of *Echinococcus multilocularis*, **Rausch,** R. & **Jentoft,** V. L. ; Larval development of *Hymenolepis diminuta* and *H. citelli*, **Rothman,** A. H. (**1**) ; Embryonic development of *Lineus ruber*, **Schmidt,** G. A. ; Polyembryony in *Procerodes lobata*, **Seilern-Aspang,** F. (**1**) ; Polyembryony in *Planaria torva*, **Seilern-Aspang,** F. (**2**) ; Development of *Macrostomum appendiculatum*, **Seilern-Aspang,** F. (**3**) ; Early development in *Diplozoon*, **Sterba,** G. ; Development of *Olveria indica* miracidium, **Tandon,** R. S. (**1**) ; Development of *Cotylurus flabelliformis* in interhost, **Ulmer,** M. J. ; Development of sporocysts of *Heronimus chelydrae*, **Ulmer,** M. J. & **Sommer,** S. C. ; Development of *Hymenolepis nana* and *H. diminuta* in interhost, **Voge,** M. & **Heyneman,** D. (**2**) ; Germ-cell development in *Schistosomatium douthitti*, **Woodhead,** A. E.

Progenesis.—Progenetic larvae of *Crepidostomum cornutum*, **Cheng,** T. C. (**2**) ; Precocious development in *Maritrema*, **Sarkisian,** L. N. ; Progenetic larva of *Genarchella genarchella*, **Szidat,** L. (**1**).

Life-history.—Life-history of *Heronimus chelydrae*, **Cable,** R. M. & **Crandall,** R. B. ; Life-history of *Crepidostomum cornutum*, **Cheng,** T. C. (**2**) ; Life-history of *Parapronocephalum symmetricum*, **Chubrik,** G. K. ; Life-history note on *Cotylurus erraticus*, **Copland,** W. O. ; Life-history of *Notocotylus chionis*, **Erkina,** N. G. ; Life-histories in *Paruterina*, **Freeman,** R. S. ; Life-history note on *Gynaecotyla adunca*, **Hunter,** W. S. & **Vernberg,** W. B. ; Life-history of new *Paramacroderoides* sp., **Leigh,** W. H. (**2**) ; Life-history note on *Prosotocus confusus*, **Odening,** K. ; Life-history of *Plagiorchis arcuatus*, **Paskalskaya,** M. Y. ; Life-history notes on *Strigea elegans*, **Pearson,** J. C. ; Life-history note on *Echinostoma revolutum* in India, **Peter,** C. T. ; Life-history note on *Scolex pleuronectis*, **Reichenbach-Klinke,** H. H. ; Life-histories of *Diorchis* spp. from *Fulica atra*, **Rybicka,** K. ; Life-history of *Microphallus similis*, **Stunkard,** H. W. (**1**) ; Life-history of *Genarchella genarchella*, **Szidat,** L. (**1**) ; Life-history of *Psilochasmus oxyurus* in Argentina, **Szidat,** L. (**3**) ; Life-history of *Gastrothylax crumenifer*, **Tandon,** R. S. (**3**) ; Life-history of *Urotocus tholonetensis*, **Timon-David,** J. (**2**) ; Life-history of *Brachylecithum alfortense*, **Timon-David,** J. (**3**) ; Life-history note on *Ornithodiplostomum podicipitis*, **Toyo-Oka,** R. & **Okada,** K. ; Life-history note on *Fibricola cratera*, **Turner,** H. F. ; Life-histories of *Echinococcus multilocularis* and *E. granulosus*, **Vogel,** H. ; Life-history of *Cryptocotyle concavum*, **Wotton,** D. M.

Bionomics of ova and larvae.— Behaviour of *Schistosoma mansoni* larvae in *Australorbis glabratus*, **Barbosa,** F. S. & **Coelho,** M. V. ; Swimming behaviour of *Cercaria splendens*, **Broek,** E. van den ; *Schistosoma mansoni* miracidia in gut of *Chaetogaster*, **Coelho,** M. de V. ; Variations in infections of *Diplostomum flexicaudum* in snails, **Cort,** W. W. et al ; Biology of *Cercaria maritrematis*, **Ginetzinskaya,** T. A. ; Influence of environmental factors on emergence of *Schistosoma japonicum* from molluscan host, **Gumble,** A. et al. ;

Egg-formation in *Schistosoma mansoni*, **Gönnert,** R. ; Periodic variation in deposition of eggs of *Fasciola hepatica*, **Hay,** J. (**1**) ; Interstrain variation in eggs of *Schistosoma japonicum*, **Hsü,** H. F. & **Li Hsü,** S. L. (**3**) ; Eggs of geographical strains of *Schistosoma japonicum*, **Hsü,** H. F. & **Li Hsü,** S. Y. (**4**) ; Egg-formation in *Taenia*, **Johri,** L. N. (**2**) ; Mortality of *Hymenolepis lanceolata* larvae in interhost, **Kisielewska,** K. (**2**) ; Bionomics of *Drepanidotaenia lanceolata* in copepods, **Kisielewska,** K. (**1**) ; Emergence of *Heterophyes aequalis* cercariae, **Kuntz,** R. E. (**1**) ; Skin-penetration by *Schistosoma mansoni* cercariae, **Lewert,** R. M. & **Lee,** C. L. (**2**) ; Histogenesis of *Echinococcus alveolaris* cyst, **Mankau,** S. K. ; Excystment of tapeworm larvae, **Rothman,** A. H. (**2**) ; Hatching of *Fasciola hepatica* egg, **Rowan,** W. B. (**2**) ; Effect of salinity on oxygen consumption of *Nassa* parasitized with *Austrobilharzia variglandis*, **Sindermann** C. & **Rosenfield,** A. ; Effects of temperature and salinity on emergence of *Austrobilharzia variglandis* cercariae, **Sindermann,** C. ; Infectivity of *Fasciola hepatica* metacercariae, **Taylor,** E. L. & **Parfitt,** J. W. ; Egg-capsules of planarians, **Wright,** H. G. S. (**2**) ; Biology of *Cercariae secunda* and *C. pseudoarmata*, **Zorina,** I. P.

Regeneration ; Reconstitution.—Regeneration monstrosities in planarians, **Bonaventure,** N. ; Experimental regeneration in *Procerodes lobata*, **Chandebois,** R. (**2**) ; Determination of pharyngeal region in *Procerodes lobata*, **Chandebois,** R. (**1**) ; Regeneration in planarians, **G.,** J. ; Pharyngeal induction in *Dugesia gonocephala*, **Kido,** T. ; Rôle of the brain in eye-regeneration in freshwater planarians, **Lender,** T. ; Amoebocytes in *Sorocelis guttata*, **Logachev,** E. D. (**3**) ; Regeneration in *Rhynchodemus sylvaticus*, **Ogren,** R. E. (**3**) ; Regenerative ability of *Otomesostoma auditivum*, **Pechlaner,** R.

EVOLUTION AND GENETICS

Evolution ; Phylogeny.—Origin of the Temnocephalida, **Boettger,** C. R. ; The Turbellarian-theory of the Cnidaria, **Hadzi,** J. ; Evolution of helminths in microtine rodents, **Rausch,** R. ; Parasito-phylogenetic rules, **Stammer,** H. J. ; Marine character of trematodes in S. American freshwater fishes, **Szidat,** L. (**2**).

Genetics : Variation.—Correlation of pseudogamy with polyploidy in planarians, **Benazzi,** M. (**2**) ; Mutation in *Dugesia lugubris*, **Benazzi,** M. (**1**) ; Chromosome evolution of biotypes of *Dugesia*, **Brazzi,** M. ; Strain-characteristics of *Schistosoma japonicum* in Japan, **Hsü,** H. F. & **Li Hsü,** S. Y. (**2**) ; Genetic factors determining ovocyte size in *Dugesia lugubris*, **Mirolli,** M. ; Strains of *Schistosoma haematobium* in East Africa, **Verdcourt,** B.

Host-parasite relations.—Host-specificity of the tetrarhynch cestodes, **Dollfus,** R. P. (**9**) ; Problem of host-specificity in the genus *Achillurbainia*, **Dollfus,** R. P. & **Nouvel,** J. ; Host-specificity in the Strigeida, **Dubois,** G. (**2**) ; Host-specificity in *Paruterina*, **Freeman,** R. S. ; Host-specificity in the Monogenea, **Hargis,** W. J. (**3**), (**4**) ; Biochemical aspects of host-specificity in cestodes, **Kent,** H. N. (**1**) ; Host-specificity in monogenetic trematodes, **Llewellyn,** J. (**1**), (**2**) ; Host-specificity in digenetic trematodes of marine fishes, **Manter,** H. W. ; Evolutionary aspects of host-specificity, **Mayr,** E. ; Biological adaptation in digenetic trematodes, **Palombi,** A. ; Theory of "parasitocoenosis", **Pavlovsky,** E. ; Host-parasite relationship of *Acetodextra amiuri*, **Perkins,** K. W. ; Host-specificity in helminths of Czechoslovakian Insectivores, **Prokopic,** J. ; Alternative approach to study of host-parasite specificity, **Rogers,** W. P. ; Host-parasite relationships, **Shultz,** R. S. & **Dartyan,** E. A. ; Host-specificity and parallel evolution among parasitic flatworms, **Stunkard,** H. W. (**2**) ; Host-specificity of *Gyrodactylus*, **Wood,** R. A. & **Mizelle,** J. D.

ETHOLOGY

General.—Ecology of Turbellaria in brackish waters, **Ax,** P. (**1**) ; Ecology of Turbellaria in coastal pools of southern France, **Ax,** P. (**6**) ; Ecological notes on Turbellaria in the Elbe, **Ax,** P. (**3**) ; Biology of *Diplozoon paradoxum*, **Bartsch,** A. ; Distribution of the Temnocephalida, **Boettger,**

C. R. ; Ecological note on *Polycelis felina*, **Dahm,** A. G. (**2**) ; Amphiboreal and bipolar distribution of helminths of marine mammals, **Delyamure,** S. L. ; Protozoa parasitic in helminths, **Dissanaike,** A. S. ; Dynamics of endoparasites of High Tatra fishes, **Dyk,** V. (**1**) ; Ecology of triclads and nemertines in Holstein lakes, **Ehrenberg,** H. ; Effect of *Moniliformis dubius* on *Hymenolepis diminuta* in rat, **Holmes,** J. C. ; Biology of *Dicrocoelium dendriticum*, **Kazubski,** S. L. ; Differential distribution of diclidophoroideans on gill-arches of host, **Llewellyn,** J. (**1**) ; Bionomic note on *Typhloplana*, **Mahan,** J. G. (**2**) ; Bionomics of *Gyrodactylus* on Swedish fishes, **Malmberg,** G. (**1**) ; Vertical distribution of freshwater planarians in Japan, **Okugawa,** K. I. & **Kawakatsu,** M. (**2**), (**3**) ; Ecological investigations on trematodes of migratory birds in U.S.S.R., **Pavlovskaya-Bykhovskaya,** I. ; Ecological note on *Cerebratulus marginatus*, **Plessis,** J. & Y. ; Ecology of freshwater triclads in North Wales, **Reynoldson,** T. B. (**2**) ; Ecology of urceolarian epizoic on *Polycelis* spp., **Reynoldson,** T. B. (**4**).

Immunobiology ; Serology.— Serodiagnosis of schistosomiasis and its application to other helminth infections, **Chaffee,** E. F. & **Nieves,** E. E. ; Serology of *Schistosoma mansoni* in mouse, **Coker,** C. M. & **Oliver-González,** J. ; Bats insusceptible to *Schistosomatium douthitti*, **Dery,** D. W. ; Susceptibility of equines to *Schistosoma spindale*, **Dutt,** S. C. (**3**) ; Serology of *Schistosoma mansoni*, **Evans,** A. S. & **Stirewalt,** M. A. ; Pre-natal infection of calves with *Fasciola hepatica*, **Hay,** J. (**3**) ; Serology of *Schistosoma mansoni* in *Macacus*, **Naimark,** D. H. et al ; Problems of immunity to schistosomiasis, **Newsome,** J. (**1**) ; Immunology and serology of *Schistosoma mansoni*, **Newsome,** J. & **Robinson,** D. L. H. ; Effect of diet on susceptibility in ducks to *Parorchis* infection, **Oguri,** M. & **Chu,** G. W. T. C. ; Intradermal test in schistosomiasis, **Pellegrino,** J. et al ; Complement-fixing substance from *Schistosoma mansoni*, **Schneider,** M. D. & **Radke,** M. G. ; Serology of *Schistosoma mansoni*, **Senterfit,** L. B. ; Effect of sheep-serum on *Fasciola* miracidia, **Soulsby,** E. J. L. (**3**) ; Serological-allergic methods in helminthiasis, **Trawinski,** A.

Pathology ; Effect on Host.— *Schistosoma mansoni* associated with portal pressure in hepatic fibrosis, **Arafa,** M. A. et al. ; Rare histopathological conditions due to *Schistosoma mansoni*, **Armbrust,** A. F. ; Effects of *Fasciola hepatica* on liver of guinea-pigs, **Bonciu,** G. et al. ; Pathology of *Schistosoma mansoni*, **Coelho,** R. de B. ; Histopathology of *Schistosoma mansoni* in the Opossum, **Coelho,** B. & **Coutinho,** E. M. ; Effects of *Schistosoma mansoni* on fat and protein digestion in mice, **DeWitt,** W. B. (**1**) ; Effects of diet in schistosomiasis, **DeWitt,** W. B. (**2**) ; New schistosome cercaria producing dermatitis, **Fain,** A. (**1**) ; Cerebral invasion of *Taenia brauni* larva in white mouse, **Fain,** A. & **Janssen,** P. ; Survival of *Taenia pisiformis* in Thiry fistulae of dogs, **Garoian,** G. ; Effect of bisexual infection of *Schistosoma mansoni* in mice, **Garson,** S. et al. ; Effects of helminths in man, **Gerwel,** C. ; Schistosomes causing venous obstruction, **Gillman,** T. ; Pathology of schistosomiasis in mice, **Gönnert,** R. ; *Diplostomum* causing tumor in brain of stickleback, **Hoffman,** G. L. & **Hoyme,** J. B. ; Histopathology of mouse-skin due to *Schistosomatium douthitti* cercariae, **Kagan,** I. G. & **Meranze,** D. R. ; Histopathology of *Paramphistomum explanatum* in liver of buffalo, **Kulasiri,** C. & **Seneviratne,** R. D. ; Effects of *Taenia taeniaeformis* on histochemistry of rat liver, **Lewert,** R. M. & **Lee,** C. L. (**1**) ; Schistosome eggs in skin-lesions of a child, **Nagaty,** H. F. et al. ; Effect of *Ligula intestinalis* larvae on growth in *Perca flavescens*, **Pitt,** C. E. & **Grundmann,** A. W. ; Effect of trematode on pituitary and gonads in fish, **Sathyanesan,** A. G. ; *Clinostomum* metacercariae associated with death in catfish, N. America, **Schwartz,** F. J. ; Effect of trematode infestation on fish activity, **Sillman,** E. I. ; Pathology of *Taenia hydatigena* in domestic and wild hosts, **Sweatman,** G. K. & **Plummer,** P. J. G. ; Effects of *Pseudhyptiasmus dollfusi* on host, **Timon-David,** J. (**1**) ; *Fasciola*

hepatica causing "halzoan" in Middle East, **Watson,** J. M. & **Kerim,** R. A. ; Effect of schistosomes on plasmodia in vole, **Yoeli,** M. (**4**).

Epidemiology.—Cerebral cysticercosis in Rumania, **Arseni,** C. & **Samitca,** D. C. ; Distribution and endemicity of cestodes in reptiles, birds and mammals, **Baer,** J. G. (**3**) ; Frequency of human hydatid infection in French Pyreness, **Bailenger,** J. ; Human helminthiasis, **Brown,** H. W. ; Helminthiasis of natives on shores of Lake Lindu, Central Celebes, **Buck,** A. A. & **Uhrmann,** G. ; Incidence of *Hymenolepis nana* among children in Rome, **Capone-Braga,** P. ; *Diphyllobothrium* infection in the Kalinin Prov., Russia, **Chizhova,** T. P. ; Schistosome dermatitis in India, **Dutt,** S. C. (**2**) ; Human schistosomiasis in Portuguese E. Africa, **Fraga de Azevedo,** J. et al. ; Survey of schistosomiasis in Central and West Africa, **Gaud,** J. (**1**) ; Schistosomiasis in Madagascar, Réunion and Mauritius, **Gaud,** J. (**2**) ; Frequency of *Eurytrema procyonis* in raccoons and foxes in Maryland, **Herman,** C. M. et al. ; Incidence of *Hysteromorpha triloba* cercariae in *Gyraulus hirsutus* in Oakwood Lakes, S. Dakota, **Hugghins,** E. J. ; Incidence of *Taenia taeniaeformis* and *Dipylidium caninum* in cats, Scotland, **Hutchinson,** W. M. ; Paragonimiasis in Korean children in Poland, **Kania,** I. et al. ; Incidence of helminth infestation among game-birds of Azerbaidzhan, Russia, **Kasimov,** G. B. (**2**) ; Survey of *Taenia* infection among school-children in Ribeirão Prêto, Brazil, **Magalhães,** A. E. A. & **Duarte,** G. G. ; Schistomiasis in Puerto Rico, **Maldonado,** J. F. & **Oliver-González,** J. ; Bionomic survey of echinococcosis, **Matoff,** K. ; Survey of schistomiasis in Liberia, **Miller,** M. J. ; Schistosomiasis in Japan, **Okabe,** K. ; Schistosome dermatitis in Finland, **Pirila,** V. & **Wikgren,** B. J. ; Hydatid disease in N. America, **Poole,** J. B. ; Human coenurosis in Spain, **Rodriguez Gallego,** C. ; *Schistosoma mansoni* in the Gambia, **Smithers,** S. R. (**2**) ; Helminthiasis in pigs, **Sprehn,** C. E. W. ; Human helminthiasis in Eastern Province of Saudi Arabia, **Tarizzo,** M. L. ; Schistosomiasis among children in Nyassa district of Portuguese E. Africa, **Tito de Morais,** A. (**3**) ; Incidence of *Cysticercus fasciolaris* in wild *Rattus norvegicus*, Illinois, **Wantland,** W. W. et al. ; Schistosome dermatitis in Iraq, **Watson,** J. M. & **Najim,** A. T. ; Incidence and distribution of *Schistosoma mansoni* in Puerto Rico in 1953, **White,** P. C. et al. ; Distribution of *Diphyllobothrium* in man in Finland, **Wikgren,** B. J. & **Muroma,** E. ; Schistosomiasis in Israel, **Witenberg,** G. & **Saliternik,** Z. ; Migration of *Clonorchis sinensis* in definitive host, **Wykoff,** D. E. & **Lepes,** T. J. ; *Schistosoma haematobium* in middle and lower regions of the Juba River, Somalia, **Zavattari,** E.

Control.—Effect of oil of cashew-nut-shell on *Hymenolepis nana* infection, **Bhaduri,** N. V & **Sanyal,** P. K. ; Ecology and control of schistosome snail-vectors, **Deschiens,** R. ; Control of human helminthiasis in Poland, **Kozusznik,** B. ; Biological control of schistosome-bearing snails, **Michelson,** E. H. ; Biological control of schistosome snail-vectors, **Michelson,** E. H. & **Augustine,** D. L.

HOST-DISTRIBUTION

Mollusca.—*Leucochloridium paradoxum* sporocysts in *Succinea*, Belgium, **Anteunis,** A. ; *Cercaria splendens* in *Planorbis vortex*, Holland, **Broek,** E. van den ; *Physa* sp. as interhost of *Heronimus chelydrae*, **Cable,** R. M. & **Crandall,** R. B. ; *Littorina saxatilis* as interhost of *Parapronocephalum symmetricum*, White Sea, **Chubrik,** G. K. ; Experimental infection of *Australorbis* spp. with *Schistosoma mansoni*, **Coelho,** M. de V. ; *Australorbis nigricans* as interhost of *Schistosoma mansoni* in State of São Paulo, Brazil, **Correa,** R. R., **Coda,** D. & **Oliveira,** U. A. ; Larval Brachylaemid trematodes in slugs, Britain, **Cragg,** J. B. et al. ; East African freshwater snails as experimental interhosts of *Schistosoma mansoni* and *S. haematobium*, **Cridland,** C. C. ; Two new macrocercous cercariae in *Musculium transversum*, Texas, **Dunagan,** T. T. (**1**) ; New schistosome cercaria in *Lymnaea acuminata*, **Dutt,** S. C. (**2**) ; *Bithynia leachi* and *B.*

tentaculata as interhosts of *Notocotylus chionis* in Russia, **Erkina,** N. G. ; New "Ocellata" cercaria in *Limnaea natalensis undussumae*, Ruanda-Urundi, **Fain,** A. (**1**) ; *Cercaria maritrematis* in *Hydrobia ulvae*, White Sea, **Ginetzinskaya,** T. A. ; New avian schistosome cercaria in *Lymnaea stagnalis*, Alaska, **Harkema,** R., **McKeever,** S. & **Becker,** D. A. ; *Stagnicola palustris* and *S. p. elodes* as experimental interhosts of new subsp. of *Diplostomum baeri*, **Hoffman,** G. L. & **Hundley,** J. B. ; *Pseudexorchis major* cercaria redescr. from *Semisulcospira* spp., Japan, **Ito,** J. ; *Heterophyes aequalis* cercariae in *Pirenella conica*, **Kuntz,** R. E. (**1**) ; *Paramacroderoides* spp. cercariae in *Helisoma duryi*, Florida, **Leigh,** W. H. (**2**) ; *Halipegus occidualis* cercaria in *Helisoma subcreatum*, Oregon, **Macy,** R. W. & **Demott,** W. R. ; *Schistosoma haematobium* cercariae in *Bulinus* sp., Gold Coast, **McCullough,** F. S. ; *Bithynia tentaculata* as experimental interhost of *Plagiorchis arcuatus*, **Paskalskaya,** M. Y. ; *Limnaea luteola* f. *succinea* as interhost of *Echinostoma revolutum* in India, **Peter,** C. T. ; *Cercaria "ocellata"* in *Lymnaea stagnalis* and *Bilharziella polonica* in *Planorbis corneus*, Finland, **Pirilä,** V. & **Wikgren,** B. J. ; *Thapariella* larva on *Lanistes*, **Prudhoe,** S. (**2**) ; *Diplostomum phoxini* cercaria in *Lymnaea pereger*, Britain, **Rees,** G. ; *Cerithidea californica* as interhost of new *Maritrema* sp., **Sarkisian,** L. N. ; New amphistome cercaria in *Indoplanorbis exustus*, India, **Singh,** K. S. (**1**) ; Snail-hosts of *Schistosoma* spp. in the Gambia, **Smithers,** S. R. (**1**) ; *Schistosoma mansoni* cercaria in *Biomphalaria pfeifferi gaudi*, **Smithers,** S. R. (**2**) ; *Microphallus similis* cercariae in *Littorina saxatilis* and *Littorina littorea*, N. America, **Stunkard,** H. W. (**1**) ; *Littoridiana australis* as interhost of *Genarchella genarchella*, **Szidat,** L. (**1**) ; Cercaria and metacercaria of *Psilochasmus oxyurus* in *Littoridina australis*, Argentina, **Szidat,** L. (**3**) ; *Gyraulus convexiusculus* as experimental interhost of *Gastrothylax crumenifer* in India, **Tandon,** R. S. (**3**) ; *Leucochroa candidissima* and *Helicella arenosa* as interhosts of *Pseudhyptiasmus dollfusi*, **Timon-David,** J. (**1**) ; *Helicella arenosa* as interhost of *Urotocus tholonetensis* and *Brachylecithum alfortensis*, **Timon-Cavid,** J. (**1**), (**3**) ; *Lymnaea lagotis* and *Bulinus truncatus* as vectors of schistosomes in Iraq, **Watson,** J. M. ; Cercariae in freshwater snails, Finland, **Wikgren,** B. J. ; Vectors of schistosomes in Israel, **Witenberg,** G. & **Saliternik,** Z. ; *Amnicola longinqua* as interhost of *Cryptocotyle concavum*, California, **Wotton,** D. M. ; *Cercaria pseudoarmata* and *C, secunda* in *Limnaea stagnalis*, **Zorina,** I. P.

Crustacea.—Copepods as experimental interhosts of *Diphyllobothrium latum* in Australia, **Bearup,** A. J. (**1**) ; New Gyrodactylid trematode on a parasitic crustacean, *Argulus indicus*, India, **Baugh,** S. C. ; *Cercaria maritrematis* encysting in *Gammarus lacustris*, **Ginetzinskaya,** T. A. ; *Gynaecotyla adunca* metacercariae in *Uca pugilator* and *Talorchestia megalophthalmia*, N. America, **Hunter,** W. S. & **Vernberg,** W. B. ; *Cypridopsis vidua* as second interhost of *Halipegus occidualis*, Oregon, **Macy,** R. W. & **Demott,** W. R. ; *Cypridopsis vidua* as experimental interhost of three *Diorchis* spp., **Rybicka,** K. ; Fiddler-crab as interhost of new *Maritrema* sp., California, **Sarkisian,** L. N. ; *Eutetrarhynchus* larva in *Peneus setiferus*, Louisiana, **Sparks,** A. K. & **Mackin,** J. G. ; *Microphallus similis* metacercaria in *Carcinides maenas*, N. America, **Stunkard,** H. W. (**1**).

Insecta.—*Formica* spp. as interhosts of *Dicrocoelium lanceolatum*, **Dollfus,** R. P. (**3**) ; Progenetic lecithodendriid trematode in *Hetaerina americana* naiads, Indiana, **Hall,** J. E. ; *Prosotocus confusus* metacercaria in Corduliinae larva, *Aeschna* larva and *Agabus bipustulatus*, Germany, **Odening,** K. ; Larvae of *Coenagrion hastulatum* and *Lestes sponsa* as interhosts of *Plagiorchis arcuatus*, **Paskalskaya,** M. Y. ; New *Allocreadium* sp. in water-beetles, **Peters** L. E. (**1**) ; Cysticercoids of *Hymenolepis diminuta* and *H. citelli* in *Trilobium confusum*, **Rothman,** A. H. (**1**) ; *Trilobium confusum* as interhost of *Hymenolepis nana* and *H. diminuta*, **Voge,** M. & **Heyneman,** D. (**2**) ; Larvae of aquatic insects as interhosts of *Cercaria secunda* and *C. pseudoarmata*, **Zorina,** I. P.

Fishes.—New *Dactylogyrus* sp. on gills of *Hypophthalmichthys molitrix*, Amur

River, Russia, **Akhmerov,** A. H. ; Cestodes in fishes, Greenland, **Baer,** J. G. (**1**) ; Digenetic trematodes in marine fishes, Pacific coast of Mexico, **Bravo-Hollis,** M. ; Monogenea on Norwegian fishes, **Brinkmann,** A. (**1**) ; New trematodes from marine fishes in Mexican waters, **Bravo-Hollis,** M. & **Manter,** H. W. ; Trematodes from fishes in Iceland, **Brinkmann,** A. (**2**) ; New acathocolpid trematode in *Silurus* and *Glyptosternum* spp. from Aral and Caspian Sea basins, **Bychowsky,** B. E. & **Dubinina,** M. N. ; Helminths of fishes in Loch Lomond, **Copland,** W. O. ; New variety of *Asymphylodora tincae*, France, **Deblock,** S. et al. ; Helminths of *Clupea harengus*, **Dollfus,** R. P. (**2**) ; New *Atalostrophion* sp. in *Ruvettus pretiosus*, Morocco, **Dollfus,** R. P. (**1**) ; Helminths of *Clupea harengus*, Baltic and N. Atlantic, **Dollfus,** R. P. (**5**) ; New siphoderine trematode in *Gobius microps*, France, **Dollfus,** R. P. et al. ; *Dactylogyrus* spp., *Ancylodiscoides siluri* and *Proteocephalus osculatus* in Moravian fishes, **Ergens,** R. ; Endoparasites of fishes in the High Tatra, **Dyk,** V. (**1**) ; Cestodes of selachians, **Euzet,** L. (**3**) ; New digenetic trematode in the muskellunge, Wisconsin, **Fischthal,** J. H. ; Digenetic trematodes from marine fishes, India, **Gupta,** N. K. (**1**) ; Caryophyllidea in Indian fishes, **Gupta,** S. P. ; *Hexostoma* sp. from *Euthynnus alleteratus*, Virginia, **Hargis,** W. J. (**2**) ; Gastrocotylid trematodes in fishes from Gulf of Mexico, **Hargis,** W. J. (**1**) ; *Eucalia inconstans* as interhost of new subsp. of *Diplostomum baeri*, N. America, **Hoffman,** G. L. & **Hundley,** J. B. ; Helminths from fish in Lake Issik-Kul, Kirgizia, Russia, **Iksanov,** K. I. (**3**) ; Helminths from *Salmo ischchan issykogegarkuni* in Lake Issik-Kul, Kirgizia, Russia, **Iksanov,** K. I. (**1**) ; New *Gyrodactylus* sp. on brook stickleback, N. Dakota, **Ikezaki,** F. M. & **Hoffman,** G. L. ; New tetraonchine trematode from *Wallagonia attu*, India, **Jain,** S. L. ; Helminths of *Esox lucius*, Czechoslovakia, **Kasták,** W. (**2**) ; New *Dactylogyrus* sp. on gills of *Cyprinus carpio*, Slovakia, **Kastak,** V. (**1**) ; New *Dactylogyrus* sp. on *Barbus meridionalis petenyi*, Czechoslovakia, **Kašták,** W. (**3**) ; *Tilapia*, *Barbus* and *Gambusia* as experimental second interhosts of *Heterophyes aequalis*, **Kuntz,** R. E. (**1**) ; New *Staphylorchis* sp. in shark, Ceylon, **Crusz,** H. ; *Paramacroderoides echinus* metacercaria in *Gambusia affinis holbrooki*, Florida, **Leigh,** W. H. (**2**) ; *Dictyocotyle coeliaca* in *Raja naevus*, Plymouth, **Llewellyn,** J. & **Green,** J. E. ; *Gyrodactylus* spp. on Swedish fishes, **Malmberg,** G. (**1**) ; New gyrodactyline trematode on *Polypterus senegalus*, the Gambia, **Malmberg,** G. (**2**) ; Two new amphistomes from Sudanese fish, **McClelland,** W. F. J. ; Digenea in freshwater fishes, Louisiana, **Miller,** G. C. & **Bennett,** H. J. ; Digenea from marine fishes, California, **Montgomery,** W. R. ; Five spp. of trematodes from Red Sea fishes, **Nagaty,** H. F. ; *Acetodextra amiuri* redescribed from catfish, N. America, **Perkins,** K. W. ; Monogenea on gills of Vistula fishes, Poland, **Prost,** M. (**2**) ; New *Gyrodactylus* and new *Dactylogyrus* spp. on fishes, Poland, **Prost,** M. (**1**) ; New *Aephnidiogenes* sp. in yellow-fin bream, S. Africa, **Prudhoe,** S. (**1**) ; Trematodes from fishes, Belgian Congo, **Prudhoe,** S. (**2**) ; *Eubothrium crassum* redescribed from trout, Britain, **Rawson,** D. ; *Scolex pleuronectis* in *Sardina pilchardus* and *Engraulis encrasicholis*, and *Acanthobothrium coronatum* in *Scyliorhinus canicula*, **Reichenbach-Klinke,** H. H. ; *Diplostomum phoxini* larva in *Phoxinus phoxinus*, Britain, **Rees,** G. ; *Dactylogyrus extensus* in *Cyprinus carpio*, Oklahoma, **Roberts,** L. S. ; New *Entobdella* sp. on *Hippoglossus hippoglossus*, Canada, **Ronald,** K. (**2**) ; *Clinostomum marginatum* larva in *Schilbeodes miurus*, N. America, **Schwartz,** F. J. ; New *Diplostomulum* in freshwater fish, India, **Singh,** K. S. (**2**) ; New *Aphanurus* sp. in salmon, Baltic, **Slusarski,** W. ; *Squalonchocotyle abbreviata* on gills of *Squalus acanthias*, Irish Sea, **Slinn,** D. J. ; New *Diplozoon* sp. on gills of characids in an aquarium, Germany, **Sterba,** G. ; *Crepidostomum farionis* and *C. metoecus* in *Salmo trutta* and *S. salar*, Wales, **Thomas,** J. D. (**1**) ; New *Allocreadium* sp. in *Alestes macrolepidotus*, Ghana, **Thomas,** J. D. (**2**) ; New *Diplozoon* sp. from *Alestes macrolepidotus*, Ghana, **Thomas,** J. D. (**3**) ; Two diplostomatid metacercaria in *Oryzius laticeps*, Japan, **Toyo-**

Oka, R. & **Okada,** K. ; *Orientophorus* sp. in Hilsa, India, **Tripathi,** Y. R. ; *Bunocotyle cingulata* in *Caspialosa pontica*, Black Sea, **Vasiliu-Suceveanu,** N. & **Radulescu,** I. ; *Triaenophorus crassus* in *Oncorhynchus keta*, Alaska, **Uzmann,** J. R. & **Hesselholt,** M. N. ; New Monogenea from Indian marine fishes, **Unnithan,** R. V. ; Helminths of percoids in Czechoslovakia and the Black Sea area, **Vejnar,** F. ; *Diphyllobothrium* plerocercoids in Finnish fish, **Wikgren,** B. J. & **Muroma,** E. ; Two Digenea from *Kyphosus elegans* in Mexican Paxific, **Winter,** H. A. ; New species of *Gyrodactylus* and *Dactylogyrus* on N. American fishes, **Wood,** R. A. & **Mizelle,** J. D. ; *Cryptocotyle concavum* metacercaria in *Gasterosteus oculeatus*, California, **Wotton,** D. M.

Amphibia.—Varieties of *Nematotaenia dispar* in *Bufo* and *Rana* spp., France and Morocco, **Dollfus,** R. P. (**14**) ; New *Baerietta* sp. in *Desmognathus f. fuscus*, N. America, **Douglas,** L. T. (**1**) ; New *Phyllodistomum* sp. in *Bufo boreas*, Utah, **Frandsen,** J. C. ; Two new *Polystoma* spp. in *Rana*, French Ivory Coast, **Gallien,** L. ; Trematodes in Czechoslovakian Amphibia, **Kopriva,** J. ; *Halipegus occidualis* in *Rana aurora*, *Taricha torosa* and *Dicamptodon ensatus*, Oregon, **Macy,** R. W. & **Demott,** W. R. ; Trematodes in salamanders from Oklahoma, Arkansas and Missouri, U.S.A., **Malewitz,** T. D. ; Helminths from *Rana e. esculenta* in eastern Thuringia, **Odening,** K. ; *Mesocoelium monodi* redescribed from *Bufo* and *Rana*, Belgian Congo, **Prudhoe,** S. (**2**) ; New *forma* of *Gorgoderina vitelliloba* in Poland, **Sandner,** H. ; *Mehraorchis ranarum* in bile-ducts of *Rana tigrina*, India, **Tandon,** R. S. (**2**) ; Anatomy of *Polystoma integerrinum*, **Williams,** J. B.

Reptilia.—New *Oochoristica* sp. in rattlesnakes, California, **Alexander,** C. G. & **Alexander,** E. P. ; Two new proterodiplostomatids in African crocodile, **Bisseru,** B. (**2**) ; New *Telorchis* sp. in *Kinosternon*, Brazil, **Dobbin,** J. E. ; Trematodes in *Natrix*, Europe, **Dollfus,** R. P. (**10**) ; *Oochoristica* in Moroccan saurians, **Dollfus,** R. P. (**17**) ; Redescription of *Paradistomum orientalis* from *Calotes*, India, **Krishnaswami,** S. K. & **Anantaraman,** M. ; *Otobothrium* larva in peritoneum of *Aspis cerastes*, Algeria, **Dollfus,** R. P. (**13**) ; Three new trematodes from chelonians, Panama, **Caballero y C.,** E. et al. ; New *Oochoristica* sp. from an Indian snake, **Singh,** K. S. (**3**) ; *Spirorchis haematobium* in *Chrysemys picta belli* and *Chelydra serpentina*, Iowa, **Ulmer,** M. J. (**2**).

Aves.—New *Prosthogonimus* sp. in *Anas strepera*, Kirgizia, Russia, **Ablasov,** N. A. (**1**) ; Avian hymenolepidids new to soviet fauna, **Ablasov,** N. A. (**2**) ; Helminths from Greenland birds, **Baer,** J. G. (**1**) ; *Sphyronchotaenia uncinata* in *Neotis capra jacksoni*, Uganda, **Baer,** J. G. (**2**) ; Synonymy of *Raillietina paucitesticulata*, **Baer,** J. G. (**3**) ; *Trichobilharzia* eggs in nasal passages of *Anas gibberifrons*, New South Wales, **Bearup,** A. J. (**2**) ; *Prosthogonimus* spp. in domestic duck and turkey, Czechoslovakia, **Birová,** V. & **Buša,** V. ; Cestodes from African birds, **Bisseru,** B. (**1**) ; *Opisthorchis geminus* in *Plectropterus gambensis* and *Dendrocygna viduata*, N. Rhodesia, **Bisseru,** B. (**4**) ; Three known trematodes from African birds, **Bisseru,** B. (**3**) ; *Paricterotaenia porosa* redescribed from *Larus argentatus*, *L. ridibundus* and *L. canus*, Italy, England and Denmark, **Bona,** F. V.; Trematodes from birds in Iceland, **Brinkmann,** A. (**2**) ; *Bilharziella littlebi* in a warbler, Virginia, **Byrd,** E. E. ; New unnamed *Brachylaemus* sp. in *Butaster tisa*, **Chatterji,** P. N. ; Cestodes in cormorants, S. Australia, **Clark,** H. G. ; New *Parastrigea* sp. in avocet, Mexico, **Coil,** W. H. ; New *Echinostoma* sp. in *Porphyrula alleni*, Congo, **Dollfus,** R. P. (**6**) ; Some dicrocoeliine trematodes from birds, **Dollfus,** R. P. (**11**) ; Cestodes in the Otidiformes, **Dollfus,** R. P. (**15**) ; Strigeid trematodes from birds, Belgian Congo, **Dubois,** G. & **Fain,** A. ; New *Paramonostomum* sp. in Emperor goose, Alaska, **Dunagan,** T. T. (**2**) ; *Notocotylus chionis* in ducks and geese on farms near Moscow, **Erkina,** N. G. ; New *Paruterina* sp. in barred owl, N. America, **Freeman,** R. S. ; Helminths from birds of prey in Poland, **Furmaga,** S. (**2**) ; Trematodes from galliform game-birds of Kirgizia, Russia, **Gagarin,** V. G. (**1**) ; Helminths in *Lophortyx gambelii*,

Nevada, **Gullion,** G. W. ; Two new *Neodiplostomum* spp. from Indian birds, **Gupta,** N. K. (**2**) ; New *Psilochasmus* sp. in Brahminy duck, India, **Gupta,** P. D. ; New *Trichobilharzia* sp. obtained experimentally from Pekin ducklings, **Harkema,** R., **McKeever,** S. & **Becker,** D. A. ; New subsp. of *Diplostomum baeri* in mallards, U.S.A., **Hoffman,** G. L. & **Hundley,** J. B. ; New Dilepidid cestode in *Fregata magnificens*, Venezuela, **Jordano,** D. & **Diaz-Ungria,** C. (**1**), (**2**) ; Trematodes of galliform birds, **Kasimov,** G. B. (**3**) ; Helminths of game-birds in Azerbaidzhan, Russia, **Kasimov,** G. B. (**2**) ; Helminths in *Coturnix coturnix*, Turkey, **Kurtpinar,** H. ; *Gigantobilharzia* sp. in pelicans, Florida, **Leigh,** W. H. (**1**) ; Trematodes from Corvidae in Slovakia, **Macko,** J. K. ; New *Ophryocotyle* sp. in charadriiform bird, Brazil, **Mahon,** J. (**1**) ; New *Deltokeras* sp. in passerine bird, Brazil, **Mahon,** J. (**2**) ; Helminths of domestic fowls in Venezuela, **Mayaudon T.,** H. ; **Vogelsang,** E. G. & **Mayaudon T.,** H. ; Three *Diorchis* spp. in European coot, Poland, **Rybicka,** K. ; New *Hymenolepis* sp. in lesser scaup duck, Alaska, **Schiller,** E. L. (**1**) ; Dicrocoeliid trematodes in birds from Idaho, **Schell,** S. C. ; New *Episthmium* sp. in *Podiceps cristatus*, Russia, **Shigin,** A. A. ; New *Raillietina* sp. in poultry, India, **Sinha,** P. K. (**1**) ; *Microphallus similis* redescribed from *Larus argentatus* and *Sterna hirundo*, N. America, **Stunkard,** H. W. (**1**) ; *Psilochasmus oxyurus* in *Dafila spinicauda*, Argentina, **Szidat,** L. (**3**) ; Two kidney-trematodes from birds, Sudan, **Wright,** C. A. ; Cestodes from Japanese birds, **Yamaguti,** S. (**1**) ; Cestodes from birds, Celebes, **Yamaguti,** S. (**2**) ; *Idiogenes otidis* in great bustard, London Zoo, **Yeh,** L.-S. (**8**) ; New *Anomotaenia* sp. in Gough Island bunting, London Zoo, **Yeh,** L.-S. (**9**).

Marsupialia.—Helminths in opossums, Illinois, **Babero,** B. B. (**1**) ; Redescriptions of cestodes from marsupials, **Sandars,** D. F. (**1**), (**2**) ; New *Fibricola* sp. in Australian marsupial, **Sandars,** D. F. (**7**) ; *Brachylaemus dasyuri* redescribed from *Thylacis obesulus*, Queensland, **Sandars,** D. F. (**8**).

Ungulata.—New *Carmyerius* sp. in bovines, Madagascar, **Golvarn,** Y. J. et al. ; Cestodes from domestic ruminants in Kirgizia, Russia, **Kosminski,** P. A. ; *Paramphistomum explanatum* in liver of buffalo, Ceylon, **Kulasiri,** C. & **Seneviratne,** R. D. ; Amphistomes from ungulates, Belgian Congo, **Prudhoe,** S. (**2**) ; *Fasciola indica* and *F. gigantica* compared, **Varma,** M. M. (**3**) ; *Schistosoma bovis* in camel, Egypt, **Soliman,** K. N. ; Helminths of pigs, **Sprehn,** C. E. W. ; *Ornithobilharzia turkestanicum* in Indian cattle, **Srivastava,** H. D. & **Trisal,** K. N. ; *Gastrothylax crumenifer* in domestic ungulates, India, **Tandon,** R. S. (**3**) ; New *Gigantocotyle* sp. in red lechwe, N. Rhodesia, **Yeh,** L. S. (**5**).

Rodentia.—*Taenia* larvae in rabbits, **Cramp,** A. C. ; Helminths from *Rattus rattus norvegicus* in Detroit, **DeGiusti,** D. L. ; *Taenia endothoracicus* larvae in *Meriones blackleri*, Iran, **Dollfus,** R. P. (**4**) ; Helminths in Alaskan muskrats, **Dunagan,** T. T. (**3**) ; *Schistosoma spindale* females in guinea-pigs, **Dutt,** S. C. (**1**) ; Helminths of cottontail rabbits in Illinois, **Ecke,** D. H. & **Yeatter,** R. E. ; *Cysticercus fasciolaris* in musk-rats of eastern Germany, **Eble,** H. ; *Taenia brauni* coenurus in wild rodents of the Belgian Congo and Ruanda-Urundi, **Fain,** A. (**2**) ; Redescription of *Hymenolepis anthocephalus* from *Blarina brevicauda*, S. Dakota, **Fasbender,** M. V. ; *Tamias* and *Peromyscus* as interhosts of new *Paruterina* sp., N. America, **Freeman,** R. S. ; Helminths from rodents in the neighbourhood of Lublin, Poland, **Furmaga,** S. (**1**) ; New unnamed and undescribed *Diplostomum* sp. in *Ondatra* from Lake Issik-Kul, Kirgizia, Russia, **Gagarin,** V. G. (**2**) ; Helminths in Moravian murines, **Holišová,** V. & **Kočiš,** M. ; *Panopistus pricei* in *Blarina brevicauda*, Illinois, **Levin,** N. L. (**1**) ; Cestodes from rodents in Alberta, Canada, **Lubinsky,** G. ; *Pseudodiorchis reynoldsi* redescribed from *Blarina b. brevicauda*, Virginia and Ohio, **Oswald,** V. H. ; Helminths of rodents in western Poland, **Pojmanska,** T. (**1**) ; *Catenotaenia lobata* in

Apodemus flavicollis and *Clethrionomys glareolus*, Britain, **Prudhoe,** S. (**3**) ; Differentiation of *Hymenolepis diminuta* and *H. citelli*, **Read,** C. P. et al. ; Cestodes from *Rattus assimilis* in Australia, **Sandars,** D. F. (**4**) ; *Schistosoma mansoni* var. *rodentorum* in Belgian Congo, **Schwetz,** J. (**1**) ; Platyhelminths in muskrats from Utah, **Senger,** C. M. & **Bates,** J. W. ; Trematodes and cestodes from *Microtus* in the Bialowieza National Park, Poland, **Soltys,** A.

Carnivora.—*Echinochasmus perfoliatus* in cats, Rome, **Bronzini,** E. ; *Paragonomus rudis* redescribed from *Urocyon*, Costa Rica, **Caballero y C.,** E. (**3**) ; *Taenia brauni* in hunting dogs, Ruanda-Urundi, **Fain,** A. (**2**) ; Helminths of Carnivora in Kirgizia, Russia, **Gagarin,** V. G. & **Iksanov,** K. I. ; New *Multiceps* sp. in dog, Eire, **Johri,** L. N. (**1**) ; Helminths from foxes in Poland, **Kozlowska,** J. ; *Platynosomum fastosum* in cat, Illinois, **Levine,** N. D. & **Beamer,** P. D. ; *Cysticercus cellulosae* in dogs, Poland, **Piotrowski,** J. ; New *Clinostomum* sp. in *Aonyx capensis*, Belgian Congo, **Prudhoe,** S. (**2**) ; *Echinococcus multilocularis* in dog, Reban I., Japan, **Rausch,** R. & **Yamashita,** J. ; Helminths in *Vulpes vulpes*, Azerbaidzhan, Russia, **Sadikhov,** I. A. ; Descriptive note on *Diphyllobothrium medius* [from an otter], **Sandars,** D. F. (**6**).

Pinnipedia.—*Cryptocotyle lingua* in *Halichoerus grypus*, I. of Man, **Duncan,** A. ; Cestodes from seals, Antartica, **McEwin,** B.

Insectivora.—*Hymenolepis serrula* in *Sorex fumeus*, N. America, **Cox,** D. D., et al. ; *Hymenolepis macyi* redescribed from *Sorex ornatus*, California, **Davis,** B. S. & **Voge,** M. ; Helminths of insectivores in Poland, **Pojmanska,** T. (**1**) ; Morphological note on *Hymenolepis jacobseni* from *Suncus coeruleus*, India, **Voge,** M.

Chiroptera.—*Prosthodendrium cordiforme* in bar, N. Rhodesia, **Yeh,** L. S. (**6**) ; New *Ochoterenatrema* sp in *Molossops* sp., Brazil, **Teixeira de Freitas,** F. J. (**2**) ; New *Hymenolepis* sp. from bats, Australia, **Sandars,** D. F. (**5**) ; Nomenclature of type-hosts of *Prosthodendrium oligolecithum* and *Acanthatrium macyi*, **Jones,** J. K. ; Trematodes from Chiroptera in Switzerland, France and Africa, **Dubois,** G. (**1**) ; Two new *Acanthatrium* spp. in *Eptesicus f. fuscus*, N. America, **Cheng,** T. C. (**3**).

Primates.—*Coenurus cerebralis* in a woman, Mexico, **Caballero y C.,** E. (**1**) ; New *Raillietina* sp. in Thai children, **Chandler,** A. C. & **Pradatsundarasar,** A. ; Coenurus of *Taenia brauni* in *Cercopithecus mitis doggetti* and children, Congo, **Fain,** A. (**2**) ; New Achillurbainiid trematode from subcutaneous cyst in man, Belgian Congo, **Fain,** A. & **Vandepitte,** J. (**1**) ; New Achillurbainiid trematode from man, Belgian Congo, **Fain,** A. & **Vandepitte,** J. (**2**) ; Anatomy of *Schistosoma mansoni*, **Gönnert,** R. ; *Echinococcus multilocularis* larvae in man, Rebun I., Japan, **Rausch,** R. & **Yamashita,** J.

GEOGRAPHICAL DISTRIBUTION

Europe.—Turbellaria in mesopsammon of the Elbe, **Ax,** P. (**3**) ; New gnathostomulid Turbellaria from N.W. Germany and Mediterranean, **Ax,** P. (**2**) ; Three new *Promesostoma* spp. from Atlantic coast of France, **Ax,** P. (**4**) ; New *Myozona* sp. from North Sea, Germany, **Ax,** P. (**5**) ; Marine Turbellaria from Mediterranean coast of France, **Ax,** P. (**6**) ; Platyhelminths and Nemertines in marine fauna of Dale Fort, Britain, **Bassindale,** R. & **Barrett,** J. H. ; New *Emplectonema* sp. from Sweden, **Brunberg,** L. ; *Polycelis felina* in fauna of Jutland, **Dahm,** A. G. (**2**) ; Paludicolous triclads from Aneboda, Sweden, **Dahm,** A. G. (**1**) ; Triclads and Nemertines in fauna of Holstein lakes, Germany, **Ehrenberg,** H. ; Helminths of animals in Kirgizia, Russia, **Gagarin,** V. G. (**3**) ; Palaeonemertines from Gullmar Fiord area, Sweden, **Hylbom,** R. ; New Dalyelliid rhabdocoele from Sweden, **Karling,** T. G. (**2**) ; Three rhabdocoeles from east Swedish coast, **Karling,** T. G. (**3**) ; *Dugesia tigrina* in Britain **Reynoldson,** T. B. (**1**) ; Freshwater triclads from North Wales, **Reynoldson,** T. B. (**2**) ; Freshwater triclads

from Yorkshire, **Reynoldson,** T. B. (**3**) ; Helminths from predatory mammals in Gruzia, **Rodonaya,** T. E. ; Distribution of freshwater platyhelminths in lower Franconia, **Stadler,** H. ; Occurrence of *Dugesia tigrina* in fauna of Montpellier, **Tuzet,** D. & **Perrugia,** A.-M. del ; Triclad turbellarians in Loch Lomond, **Weerekoon,** A. C. J. ; Turbellaria from western Norway, **Westblad,** E. ; Adult trematodes in fauna of Finland, **Wikgren,** B. J. ; Parasites in fauna of Goldapiwo Lake, Poland, **Wisniewski,** W. L. (**2**).

Africa.—Strigeid parasites from Africa, **Bisseru,** B. (**2**) ; Triclads from Cape Verde Islands, **Luther,** A. (**2**) ; New *Convoluta* sp. from S. Africa, **Marcus,** E. du B.-R.

Asia.—Helminths of farm-stock in Mongolia, **Ivashkin,** V. M. (**1**) ; New *Phagocata* sp. from Japan, **Okugawa,** K. I. (**2**) ; New *Bipalium* sp. from Nepal, **Saxena,** P. N. ; Helminths of domesticated animals in India, **Thapar,** G. S.

America.—Nemertines from Brazil, **Corrêa,** D. D. ; Larval trematodes from Columbia Basin, Washington, **Deforest,** A. ; Cercariae of the Mountain Lake region, Virginia, **Etges,** F. J. ; *Carinoma* from the Chilean coast, **Friedrich,** H. (**1**) ; Land-planarians from Paraná, Brazil, **Froelich,** C. G. (**1**) ; Land-planarians from Brazil, **Froelich,** C. G. (**2**) ; Polyclads from Pacific coast of N. America, **Hyman,** L. H. (**1**) ; Polyclads from the West Indies and Florida, **Hyman,** L. H. (**2**) ; Two new *Mesostoma* spp. from N. America, **Hyman,** L. H. (**4**) ; New subspecies of *Typhloplana viridata* from Virginia, **Mahan,** J. G. (**1**), (**2**) ; New Turbellaria from Peru and Brazil, **Marcus,** E. du B.-R. ; Freshwater Tetraonchinae in N. America, **Mizelle,** J. D. et al. ; *Catenula* spp. from Eastern U.S.A., **Nuttycombe,** J. W. ; Dicyemid mesozoans from Gulf of Mexico, **Short,** R. B. (**3**) ; Helminths of wild and domestic animals in Venezuela, **Vogelsang,** E. G. & **Mayaudon T.,** H.

Arctic.—New Hoplonemertines from the Arctic, **Friedrich,** H. (**2**) ; Trematoda in fauna of Iceland, **Brinkmann,** A. (**2**).

N. Atlantic.—Bathypelagic nemertines of N. Atlantic, **Coe,** W. R.

Pacific.—Pelagic nemertines of the northwestern Pacific, **Korotkevitsch,** V. S. ; Two new Mesozoa from the Pacific, **McConnaughey,** B. H.

Mediterranean.—Doubtful occurrence of *Lineus ruber* in Mediterranean, **Gontcharoff,** M. (**3**).

SYSTEMATIC INDEX

PLATYHELMINTHES

TURBELLARIA

Acerotisa multicelis **sp. nov.,** Florida and Puerto Rico, p. 139 figs., **Hyman,** L. H. (**2**).

Adenoplana Stummer-Traunfels redefined, p. 116, *antillarum* **sp. nov.,** West Indies, p. 116 figs., **Hyman,** L. H. (**2**).

Alexlutheria **gen. nov.,** Dalyellidae, type : *acrosiphoniae* **sp nov.,** Sweden, p. 331 figs., **Karling,** T. G. (**2**).

Anandroplana **gen. nov.,** Cryptocelididae Laidlaw, defined p. 125, type : *muscularis* **sp. nov.,** p. 125 figs., *portoricensis* **sp. nov.** p. 127 figs., Puerto Rico, **Hyman,** L. H. (**2**).

Archiloa petiti **sp. nov.,** Mediterranean coast of France, p. 64 figs., **Ax,** P. (**6**).

Archimonotresis limophila Meixner, Mediterranean coast of France, p. 29 fig., **Ax,** P. (**6**).

Axia **gen. nov.,** Dalyelliidae, defined, p. 318, type : *Jensenia luetjohanni* Ax, p. 318 figs., *remanei* **sp. nov.** (=*Jensenia* sp. Ax, 1952), Germany, p. 321 figs., **Luther,** A. (**1**).

Baltoplana magna Karling, Mediterranean coast of France, p. 155 figs., **Ax,** P. (**6**).

Beauchampiella **gen. nov.,** Dalyelliidae, defined, p. 317, type : *Jensenia oculifera* Beauchamp, p. 317 figs., **Luther,** A. (**1**).

Bipalium kewense Mos. redescr. from Cape Verde Is., p. 2 figs., **Luther,** A. (**1**).—*B. keshavi* **sp. nov.,** Nepal, p. 301, **Saxena,** P. N.

Bresslauilla relicta Reis., Mediterranean coast of France, p. 104 figs., **Ax,** P. (**6**).

Brinkmanniella macrostomoides Luther, Mediterranean coast of France, p. 110 figs., **Ax,** P. (**6**).

Canetellia **gen. nov.,** Provorticidae, defined p. 103, type : *beauchampi* **sp. nov.,** Mediterranean coast of France, p. 89 figs., **Ax,** P. (**6**).

Castrella Fuhrm., systematic review, key to spp., p. 272, *alba* **sp. nov.,** Finland, p. 281 figs., **Luther,** A. (**1**).

Catenula Dugés, systematic position, p. 420, key to N. American spp., p. 423, *confusa* **sp. nov.** p. 426 figs., *virginia* Kepner & Carter p. 427 figs., *leptocephala* **sp. nov.** p. 428 figs., *sekerai* Beauch. p. 429 figs., eastern U.S.A., **Nuttycombe,** J. W.

Cestoplana techa **sp. nov.,** Brazil, p. 174 figs., **Marcus,** E. du B.-R.

Cheliplana vestibularis de Beauch., Mediterranean coast of France, p. 152 figs., **Ax,** P. (**6**).

Convoluta saliens (Graff), Kiel and southern France, p. 8 figs., **Ax,** P. (**6**).—*C. macnaei* **sp. nov.,** S. Africa, p. 168 figs., **Marcus,** E. du B.-R.

Crassandros **gen. nov.,** Leptoplanidae, defined p. 132, type : *dominicanus* **sp. nov.,** West Indies, p. 132 figs., **Hyman,** L. H. (**2**).

Dalyellia Flemming, systematic review, key to spp., p. 156, **Luther,** A. (**1**).

Dalyelliidae, morphology and systematics, key to genera, p. 90, **Luther,** A. (**1**).

Dolichoplana vircata **sp. nov.,** Peru, p. 154 figs., **Marcus,** E. du B.-R.

Dugesia tigrina (Girard) in Britain, p. 102 fig., **Reynoldson,** T. B. (**1**).—*D. gonocephala* (Dugès) s.l., Cape Verde Is., p. 1, **Luther,** A. (**2**).

Enchiridium periommatum Bock, Gulf of Mexico, p. 146 fig., **Hyman,** L. H. (**2**).

Enterostomula graffi (de Beauch.) p. 32 figs., *catinosa* (Bekl.) p. 34 figs., Mediterranean coast of France, **Ax,** P. (**6**).

Espegrendia **gen. nov.,** Solenopharyngidae, type : *norvegica* **sp. nov.,** Norway, p. 14 figs., **Westblad,** E.

Eurylepta aurantiaca Heath & McGreg., Puget Sound and California, p. 10, **Hyman,** L. H. (**1**).

Freemania litoricola (Heath & MacG.), California, p. 9, **Hyman,** L. H. (**1**).

Fulinskiella Gieysz. & Szynal, key to spp., p. 296, *lapponica* **sp. nov.,** Lapland, p. 302 figs., **Luther,** A. (**1**).

Geoplana polyophthalma Graff., p. 174 figs., *chita* **sp. nov.** p. 177 figs., *joia* **sp. nov.** p. 179 figs., *mourei* **sp. nov.** p. 181 figs., *nana* **sp. nov.** p. 183 figs., *plumbea* **sp. nov.** p. 185 figs., Brazil, **Froelich,** C. G. (**1**).—*G. applanata* Graff, p. 315 figs., *sexstriata* Gr. p. 318 figs., *splendida* Gr. p. 319 figs., *barreirana* Riester p. 320 figs., *pseudovaginuloides* Riester p. 325 figs., *zebroides* Riester p. 328 figs., *fragai* Froehl. p. 331 figs., *jandira* Froehl. p. 333 figs., *oliverioi* Froehl. p. 334 figs., *cafusa* **sp. nov.** p. 336 figs., *picta* **sp. nov.** p. 339 figs., Brazil, **Froehlich,** C. G. (**2**).—*G. quichua* du B.-R. Marcus, p. 162, *weyrauchi* du B.-R. Marcus, p. 163 figs., *aymara* du B.-R. Marcus, p. 163, *lama* **sp. nov.** p. 164 figs., *vicuna* **sp. nov.** p. 165 figs., *shapra* **sp. nov.** p. 166 figs., Peru, **Marcus,** E. du B.-R.

Gieysztoria Ruebush & Hayes, systematic review, differential keys to spp., pp. 171, 231, *pseudoblodgetti* **sp. nom. nov.** pro *Dalyellia blodgetti* Graff, 1911, p. 179 fig., *expedita expeditoides* **subsp. nov.,** Finland, p. 186 figs., *italica* **sp. nov.,** Italy, p. 191 figs., *ornata maritima* **subsp. nov.,** Finland, p. 197 figs., *subsalsa* **sp. nov.,** Italy, p. 200 figs., *octospinosa* **sp. nov.,** Finland, p. 201 figs., *macrovariata* 9-*spinosa* **subsp. nov.,** Italy, p. 209 figs., *multiovata* **sp. nov.,** Finland, p. 229 figs., *beklemischevi* **sp. nom. nov.** pro *Microdalyellia nassonovi* Beklemischev, 1950, p. 244 fig., **Luther,** A. (**1**).

Gnathostomaria **gen. nov.,** Gnathostomulidae, defined, p. 560, type : *lutheri* **sp. nov.,** Mediterranean, p. 549 figs., **Ax,** P. (**2**).

Gnathostomula **gen. nov.,** Gnathostomulidae, defined, p. 560, type : *paradoxa* **sp. nov.,** Sylt and Kiel Bay, p. 536 figs., **Ax,** P. (**2**).

Gnathostomulida **ord. nov.** p. 559, **Ax,** P. (**2**).

Gnathostomulidae **fam. nov.,** Gnathostomulida, to incl. *Gnathostomula* Ax and *Gnathostomaria* Ax, p. 560, **Ax,** P. (**2**).

Gnesioceros Dies. redefined p. 134, *floridana* Pearse, Virgin Is. and Texas, p. 135, **Hyman,** L. H. (**2**).

Gnosonesimilia borealis Westblad, Greenland. p. 10 figs., **Westblad,** E.

Graffilla Ihering, key to spp., p. 18, *curiosa* **sp. nov.,** Norway, p. 12 figs., **Westblad,** E.

Halammovortex Karling, systematic review, key to spp., p. 308, **Luther,** A. (**1**).—*H. macropharynx* (Meixner), Mediterranean coast of France, p. 108 figs., **Ax,** P. (**6**).

Hofstenia tinga **sp. nov.,** Brazil, p. 170 figs., **Marcus,** E. du B.-R.

Hoplopera littoralis **sp. nov.,** Sweden, p. 29 figs., **Karling,** T. G. (**3**).

Incapora weyrauchi du B.-R. Marcus, Peru, p. 161 fig., **Marcus,** E. du B.-R.

Indistylochus **gen. nov.,** Stylochidae, defined p. 123, type : *hewatti* **sp. nov.,** Puerto Rico, p. 123 figs., **Hyman,** L. H. (**2**).

Itannia ornata f. *murna* **forma nov.,** Brazil, p. 174 fig., **Marcus,** E. du B.-R.

Jensenia Graff., systematic review, p. 314, **Luther,** A. (**1**).

Kaburakia excelsa Bock, Californian coast, p. 7, **Hyman,** L. H. (**1**).

Macrostomum appendiculatum (Fabr.) p. 12 fig., *pusillum* Ax p. 13 figs., *spirale* Meixner p. 15 figs., *mediterraneum* **sp. nov.** p. 23 figs., *longistyliferum* **sp. nov.** p. 27 figs., Mediterranean coast of France, **Ax,** P. (**6**).

Maehrenthalia delamarei p. 128 figs., *dubi* p. 136 figs., **spp. nov.,** Mediterranean coast of France, **Ax,** P. (**6**).

(*Marcusiella*) **subgen. nov.,** *Gieysztoria,* to incl. *thymara* Marcus (type), *okugawai* Ruebush & Hayes, *transilvana* Parádi, defined p. 265, **Luther,** A. (**1**).

Mesostoma andrewsi, Alaska, p. 2 figs., *californicum,* California, p. 6 figs., **spp. nov.,** *ehrenbergi* (Focke), Montana, p. 10 figs., **Hyman,** L. H. (**4**).

Mexistylochus Hyman a syn. of *Ommatoplana* Laidlaw, p. 9, **Hyman,** L. H. (**1**).

Microdalyellia (Gieysztor), systematic review, key to spp., p. 92, *ohlsoni* **sp. nov.,** Finland, p. 106 figs., *ruebushi* **sp. nom. nov.** pro *Dalyellia aspinosa* Ruebush p. 140 fig., **Luther,** A. (**1**).

Microplana yarai sp. nov., Peru, p. 157 figs., **Marcus,** E. du B.-R.

Minona trigonopora **sp. nov.,** Mediterranean coast of France, p' 74 figs., **Ax,** P. (**6**).

Monocelis lineata (Müll.) p. 61 fig., sp. innom. p. 63 fig., Mediterranean coast of France, **Ax,** P. (**6**).

Myozona Marcus, redefined, key to spp., p. 257, *stylifera* **sp. nov.,** North Sea, Germany, p. 251 figs., **Ax,** P. (**5**).

Nematoplana sp. indet., Mediterranean coast of France, p. 58 fig., **Ax,** P. (**6**).

Notomonocophorum oculatum **sp. nov.,** Norway, p. 17 fig., **Westblad,** E.

Notoplana inquilina **sp. nov.,** Puget Sound, N. America, p. 1 figs., *acticola* (Boone), California, p. 9, **Hyman,** L. H. (**1**).—*N. insularis* Hyman p. 130, *ferruginea* (Schmarda), synonymy, West Indies, p. 131 figs., **Hyman,** L. H. (**2**).—*N. chierchiai* (Plehn), Peru, p. 173, **Marcus,** E. du B.-R.

Ommatoplana levis (Hyman), n. comb., *mexicana* **sp. nom. nov.** pro *Mexistylochus tuberculatus* Hyman, p. 9, **Hyman,** L. H. (**1**).

Opisthomum immigrans **sp. nov.,** Mediterranean coast of France, p. 139 figs., **Ax,** P. (**6**).

Otocelis gullmarensis Westblad redescr. from Mediterranean coast of France, p. 10 figs., **Ax,** P. (**6**).

Phagocata kawakatsui **sp. nov.,** Japan, p. 19 figs., **Okugawa,** K. I. (**2**).

Placorhynchus octaculeatus Karling, Mediterranean coast of France, p. 148 fig., **Ax,** P. (**6**).

Plagiostomum ponticum Pereyasl. redescr. from Mediterranean coast of France, p. 49 figs., **Ax,** P. (**6**).

Polycystis hibernica Southern, p. 363, *steueri* Steinböck, p. 365, *tripalmata* Bekl., p. 367, transf. to *Rogneda*, **Karling,** T. G. (**1**).

Promesostoma bipartitum p. 110 figs., *maculosum* p. 111 figs., *minutum* p. 112 figs., **spp. nov.,** Arcachon Bay, France, **Ax,** P. (**4**).—*P. cochleare* Karling, p. 119 ags., *gallicum* **sp. nov.** p. 121 figs., Mediterranean coast of France, **Ax,** P. (**6**).—*P. nynaesiensis* **sp. nov.,** Sweden, p. 28 figs., **Karling,** T. G. (**3**).

Promonotus schultzei Meixner, Mediterranean coast of France, p. 59 figs., **Ax,** P. (**6**).

Proschizorhynchus arenarius (de Beauch.), Mediterranean coast of France, p. 151 figs., **Ax,** P. (**6**).

Prostheceraeus floridanus **sp. nov.,** Florida, p. 138 fig., **Hyman,** L. H. (**2**).

Prosthiostomum pulchrum Bock, West Indies, p. 142 figs., **Hyman,** L. H. (**2**).

Proxenetes plebeius Bekl. p. 114 figs., *westbladi* Luther p. 116 figs., *angustus* Ax p. 118 figs., Mediterranean coast of France, **Ax,** P. (**6**).

Pseudoceros canadensis Hyman, Puget Sound, p. 9, **Hyman,** L. H. (**1**).——*P. splendidus* Stummer-Traunfels, Puerto Rico, p. 137, **Hyman,** L. H. (**2**).

Pseudograffilla arenicola Meixner, Mediterranean coast of France, p. 106 figs., **Ax,** P. (**6**).

Pseudostylochus ostreophagus **sp. nov.,** N. America and Japan, p. 4 figs., **Hyman,** L. H. (**1**).

Rogneda Ulj., reviewed, key to spp., p. 363, *anglica* from Plymouth and Millport p. 364 figs., *westbladi* from Adriatic, p. 364 figs., *capulata* from Adriatic, p. 365 figs., **spp. nov., Karling,** T. G. (**1**).—*R. westbladi* Karling *gallica* **subsp. nov.,** Mediterranean coast of France, p. 146 figs., **Ax,** P. (**6**).

Sergia Nasonov redefined p. 268, *sergia* (Bekl.) redescr. p. 268 figs., **Luther,** A. (**1**).

Solenopharyngidae, key to genera, p. 18, **Westblad,** E.

Stylochus megalops (Schmarda) redescr. p. 120 figs., *oculiferus* (Girard) p. 122, West Indies, **Hyman,** L. H. (**2**).

Styloplanocera Bock, redefined, p. 135, *fasciata* (Schmarda) Puerto Rico, p. 135 fig., **Hyman,** L. H. (**2**).

Thysanozoon nigrum Girard, Bahamas, p. 137, **Hyman,** L. H. (**2**).

Tvaerminnea karlingi Luther, Mediterranean coast of France, p. 112 figs., **Ax,** P. (**6**).

Typhloplana viridata ovipara **subsp. nov.,** Virginia, p. 293, **Mahan,** J. G. (**1**) ; p. 411 figs., **Mahan,** J. G. (**2**).

Uncinorhynchus flavidus Karling, Mediterranean coast of France, p. 150 fig., **Ax,** P. (**6**).

Vaillantiella **gen. nov.,** Dalyellidae, defined p. 303, type : *algerica* **sp. nov.,** Algiers, p. 303 figs., **Luther,** A. (**1**).

Varsoviella Gieysz. & Wiszniew., systematic review, p. 322, **Luther,** A. (**1**).

Vejdovskya pellucida M. Sch. p. 83 fig., *ignava* Ax p. 84 figs., *helictos* **sp. nov.** p. 86 figs., Mediterranean coast of France, **Ax,** P. (**6**).—*V. simrisiensis* **sp. nov.,** Sweden, p. 25 figs., **Karling,** T. G. (**3**).

TREMATODA

Acanthatrium Faust, redefined, p. 60, differential key and comparative table of spp., pp. 62, 63, *amphidymum* in sm. int. of *Eptesicus f. fuscus* p. 60 figs., *oligacanthum* in sm. int. of *E. f. f.* p. 61 figs., **spp. nov.,** Virginia, **Cheng,** J. C. (**3**).—*A. macyi* Sogandares-Bernal : type-host, *Pipistrellus savii coreensis*, pl 185, **Jones,** J. K.

Acetodextra amiuri Stafford redescribed from catfish, N. America, p. 139 figs., **Perkins,** K. W.

Achillurbainia recondita Trav. a syn. of *nouveli* Dollfus, p. 228, **Dollfus,** R. P. & **Nouvel,** J.

Actinocleidus Mueller redefined, list of N. American spp., p. 163, **Mizelle,** J. D. et al.

Aephnidiogenes rhabdosargi **sp. nov.** in stom. of *Rhabdosargus sarba*, S. Africa, p. 72 fig., **Prudhoe,** S. (**1**).

Allassogonoporus Olivier, key to spp.,

p. 693, *amphoraeformis* (Mödlinger) n. comb. in *Myotis m. mystacinus*, Switzerland, p. 691 fig., **Dubois,** G. (**1**).

Allechinostomum renale Yeh transferred to *Ignavia*, p. 332, **Wright,** C. A.

Allocreadium Lss. review, redefined, p. 137, *neotenicum* **xp. nov.** in haemocoel of *Acilius semisulcatus*, *Dytiscus* sp. and *Agabus* sp., Michigan, p. 136 figs., *chuscoi* Pearse and *wallini* Pearse transf. to *Crassicutis* p. 140, *boleosomi* Pearse and *oncorhynchi* Eguchi transf. to *Plagioporus*, p. 140, **Peters,** L. E. (**1**).—*A. voltanum* **sp. nov.** in *Alestes macrolepidotus*, Ghana, p. 1 figs., **Thomas,** J. D. (**2**).

Allodiscocotyla Yamag. redefined p. 8 transf. to Vallisiinae, **Hargis,** W. J. (**1**).

Ametrodaptes **gen. nov.,** Monorchiidae, defined p. 261, type : *mexicana* **sp. nov.** int. of *Haemulon scudderi*, Pacific coast of Mexico, p. 257 figs., **Bravo-Hollis,** M.

Amonaxine **gen. nov.,** Axinidae, defined p. 44, type : *Axine constricta* Yamaguti from gills of *Tylosurus schismatorhynchus*, Japan, p. 66, **Unmithan,** R. V.

Amphipolycotyle **gen. nov.,** Gastrocotylidae, defined, p. 3, type : *chloroscombrus* **sp. nov.** on gills of *Chloroscombrus chysurus*, Gulf of Mexico, p. 2 figs., **Hargis,** W. J. (**1**).

Anchoradiscus Mizelle redefined, list of N. American spp., p. 162, **Mizelle,** J. D. et al.

Apatemon Szidat, systematic note, p. 28, key to spp., p. 30, *truonis* **sp. nov.** in int. of *Phalacrocorax a. africanus* p. 25 figs., *gracilis congolensis* **var. nov.** in *Thalassornis l. leuconotus* p. 27 fig., Belgian Congo, **Dubois,** G. & **Fain,** A.—*A. gracilis* (Rud.), systematic note, p. 17, *gracilis minor* Yamag. in *Clangula hyemalis*, Greenland, p. 16, **Baer,** J. G. (**1**).—*A. gracilis* (Rud.) cercaria in *Lymnaea peregra* and *L. palustris*, Finland, p. 63 figs., **Wikgren,** B. J.

Aphalloides **gen. nov.,** Siphoderinae, type : *coelomicola* **sp. nov.** in coelom of *Gobius microps*, France, p. 38 figs., **Dollfus,** R. P. et al.

Aphanurus Lss., comparative table of spp., *balticus* **sp. nov.** in *Salmo salar*, Baltic, p. 51 figs., **Slusarski,** W.

Apharyngostrigea flexilis Dubois in *Circus aeruginosus*, Poland, p. 237 fig., **Furmaga,** S. (**2**).

Astiotrema monticelli Stoss. in *Natrix viperina*, *N. natrix* var. *persa*, Italy, p. 48 figs., **Dollfus,** R. P. (**10**).

Asymphylodora tincae (Modeer) var. *media-glabra* **var. nov.** in *Tinca tinca*, France, pp. 208, 215 figs., **Deblock,** S. et al.—*A. tincae* (Modeer) cercaria in *Bithynia tentaculata*, Finland, p. 73 figs., **Wikgren,** B. J.

Atalostrophion orbitarium **sp. nov.** in orbital cavity of *Ruvettus pretiosus*, Morocco, p. 365 figs., **Dollfus,** R. P. (**1**).

Athesmia jolliei **sp. nov.** in bile-ducts of *Falco sparverius*, Idaho, p. 187 figs., **Schell,** S. C.

Axine hemiramphae on gills of *Hemiramphus xanthopterus* p. 81 figs., *parawa* on gills of *Cypselurus bahiensis* p. 88 figs., **spp. nov.,** India, **Unnithan,** R. V.

Axinidae **fam. nov.,** defined p. 41, to incl. the subfamilies Heteraxininae, Monaxininae and Axininae, p. 42, **Unnithan,** R. V.

Axininae **subfam. nov.,** Axinidae, defined, to incl. *Axine* Abildg., *Axinoides* Yamag., *Loxura* n.g., *Oligapta* n.g. and *Chlamydaxine*, p. 45, **Unnithan,** R. V.

Axinoides kola **sp. nov.** on gills of *Ablennius hians*, India, p. 92 figs., **Unnithan,** R. V.

Azygia lucii (Müll.) cercaria in *Lymnaea palustris*, Finland, p. 68 fig., **Wikgren,** B. J.

Bilharziella littlebi (Byrd) n. comb. in mesenteric vein of *Dendroica pennsylvanica*, Virginia, p. 374 figs., **Byrd,** E. E.

Brachadena Linton distinct from *Lecithophyllum* Odhn. p. 270, *pyriformis* Linton in *Lutianus aratus*, Pacific coast of Mexico, p. 269 fig., **Bravo-Hollis,** M.

Brachylaemus arcuatus Duj. redescr. from *Garrulus glandarius*, Slovakia, p. 514 fig., **Macko,** J. K.—*B. dasyuri*

(Johnst.) (syn. *simile* (Johnst.)) redescr. from *Thylacis obesulus*, Queensland, p. 265 fig., **Sandars,** D. F. (**8**).

Brachylecithum olssoni (Raill.) in *Apus apus*, p. 370, *attenuatum* (Duj.) in *Merula merula* p. 379 fig., *lobatum* (Raill.) in *Accipiter nisus*, p. 380 fig., *alfortensis* (Raill.) in *Corvus cornix*, p. 380 fig., France, **Dollfus,** R. P. (**11**).—*B. tetraogalli* Gvosdev, 1953, in *Tetraogallus himalayensis*, Kirgizia, Russia, p. 102 fig., **Gagarin,** V. G. (**1**).—*B. lobatum* (Raill.) (syn. *glandarii* Semenov) redescr. from *Garrulus glandarius*, p. 512 figs., sp. innom. in *Corvus frugilegus* p. 513 fig., Slovakia, **Macko,** J. K.—*B. idahoensis* **sp. nov.** in bileducts of *Falco sparverius*, Idaho, p. 184 fig., *mosquensis* (Skrj. & Issait.) in liver of *Turdus migratorius* and *Ixoreus n. naevius*, Idaho, p. 186, **Schell,** S. C.

Brevicaecum **gen. nov.,** Paramphistomatidae, defined p. 255, type : *niloticum* **sp. nov.** in int. *Citharinus citharus*, p. 252 fig., Sudan, **McClelland,** W. F. J.

Buckleytrema **gen. nov.,** Monodhelminthidae, defined p. 74, type : *indica* **sp. nov.** in int. of "marine catfish", India, p. 76 fig., **Gupta,** N. K. (**1**).

Bunocotyle cingulata Odhn. in *Caspialosa pontica*, Black Sea, p. 87, **Vasiliu-Suceveanu,** N. & **Radulescu,** I.

Carmyerius dollfusi **sp. nov.** in bovines, Madagascar, p. 56 figs., **Golvan,** Y. J., **Chabaud,** A. G. & **Grétillat,** S.—*C. exporus* Maplest. redescr. from *Bubalus caffer*, p. 21, *mancupatus* (Fischdr.) redescr. from *Hippotragus equinus*, *Taurotragus oryx*, p. 23, Belgian Congo, **Prudhoe,** S. (**2**).

Cercaria rabbi **sp. nov.** (macrocercous) in *Musculium transversum* p. 87 figs., *ruddi* **sp. nov.** (macrocercous) in *M. t.* p. 90 figs., Texas, **Dunagan,** T. T. (**1**).—*C. srivastavai* **sp. nov.,** schistosome, in *Lymnaea acuminata*, India, p. 349, **Dutt,** S. C. (**2**).—*C. herini* **sp. nov.,** "Ocellata", in *Limnaea natalinsis undussumae*, Ruanda-Urundi, p. 701 figs., **Fain,** A. (**1**).—*C. lewerti* **sp. nov.,** Amphistome, "pigmentata", in *Indoplanorbis exustus*, India, p. 366 figs., **Singh,** K. S. (**1**).—*C. ubiquita* Lebour (syn. *C. ubiquitoides* Stunkard) larva of *Microphallus similis*, p. 254, **Stunkard,** H. W. (**1**).—*C. fennica* I, notocotylid, in *Bithynia tentaculata*, p. 18 figs., *fennica* II, xiphidiocercaria, in *B. tentaculata* p. 31 figs., *fennica* III, *xiphidiocerc.*, in *Lymnaea stagnalis*, *L. peregra* and *L. palustris*, p. 43 figs., *fennica* IV, diplostome, in *L. stagnalis* and *L. peregra*, p. 60 figs., *fennica* V, cyathocotylid, in *B. tentaculata*, p. 66 figs., **spp. nov.,** *helvetica* XVII Dubois in *B. tentaculata*, p. 24 fig., *cordiformis* Wesenberg-Lund in *B. tentac.* p. 33 figs., *helvetica* IX Dubois in *B. tentac.* p. 34 figs., *cambriensis* I Wright in *Lymnaea stagnalis* and *L. palustris* p. 35 figs., *helvetica* XXX Dubois in *L. stagnalis*, *L. peregra* and *L. palustris*, p. 37 figs., "*ocellata*" in *L. stagnalis* and *L. palustris* p. 48 figs., *strigae tardae* Mathias in *L. stagnalis* and *L. palustris*, pp. 51, 56 figs., *linearis* Wesenberg-Lund in *L. palustris*, p. 53 fig., *chromatophora* Brown in *L. stag.*, *L. pal.* and *L. pereg.*, p. 59 figs., *splendens* Szidat in *Anisus vortex*, p. 69 figs., Finland, **Wikgren,** B. J.

Cercariaeum squamosum Fuhrm. resembles *Asymphylodora tincae*, p. 208, **Deblock,** S. et al.

Cestrahelmins **gen. nov.,** systematic position uncertain, defined p. 484, type : *laruei* **sp. nov.** in int. of *Esox m. masquinongy*, Wisconsin, p. 484 figs., **Fischthal,** J. H.

Cheloniotrema **gen. nov.,** Plagiorchiidae, defined, p. 424, type : *tropicum* **sp. nov.** in int. of *Kinosternon integrum*, *K. panamensis*, Panama, p. 420 figs., **Caballero y C.,** et al.

Chlamydaxine **gen. nov.,** Axinidae, defined p. 46, type : *Axinoides truncatus* Hargis from *Tylosurus raphidoma*, Florida, p. 98, **Unnithan,** R. V.

Clavunculus **gen. nov.,** Tetraonchinae, defined, p. 165, type : *C.* [*Ancyrocephalus*] *bursatus* (Mueller) on *Micropterus salmoides*, p. 165, **Mizelle,** J. D. et al.

Cleidodiscus Mueller redefined, p. 165, list of N. American spp., p. 166, **Mizelle,** J. D. et al.

Clinostomoides brieni Dollfus larvae encysted on gills of *Clarias lazera*, Belgian Congo, p. 15 fig., **Prudhoe,** S. (**2**).

Clinostomum pyriforme **sp. nov.** in mouth of *Aonyx capensis*, Belgian Congo, p. 13 fig., **Prudhoe,** S. (**2**).

Conspicuum clathratum (Desl.) in *Apus apus*, France, p. 25, **Dollfus,** R. Pl (**11**).—*C. burleighi* **sp. nov.** in bileducts of *Passerella iliaca*, Idaho, p. 184 fig., **Schell,** S. C.

Corrigia corrigia (Braun) in *Alectoris graeca* p. 103 fig., *skrjabini* Kassimov in *Tetraogallus himalayensis* p. 104, Kirgizia, Russia, **Gagarin,** V. G. (**1**).

Cotylophoron Stiles & Goldbgr., systematic note, *cotylophorum* (Fischdr.) in *Adenota*, *Bubalus*, *Kobus*, *Taurotragus*, *Tragelaphus* spp., Belgian Congo, p. 19, **Prudhoe,** S. (**2**).

Cotylurus erraticus (Rud.) metacercaria encysted on heart of *Coregonus clupeoides*, adults experimentally in pigeons, Britain, p. 128, **Copland,** W. O.

Crepidostomum cornutum (Osborn) cercaria in *Sphaerium striatum*, metacercaria in *Cambarus bartoni sciotensis*, adult in *Amploplites r. rupestris*, Virginia, p. 107 figs., **Cheng,** T. C. (**2**).

Crotalaxine **gen. nov.,** Axinidae, defined p. 44, type : *serpentina* **sp. nov.** on gills of *Ablennes hians*, India, p. 68 figs., **Unnithan,** R. V.

Cryptocotyle concavum (Crepl.) cercaria in *Amnicola longinqua*, metacercaria in *Gasterosteus aculeatus*, California, adults experim. in chicks and ducklings, California, p. 271 figs., **Wotton,** D. M.

Dactylogyrus skrjabini **sp. nov.** on gills of *Hypophthalmichthys molitrix*, Amur, p. 167 fig., **Akhmerov,** A. H.—*D. hovorkai* **sp. nov.** on gills of *Cyprinus carpio*, Slovakia, p. 231 figs., **Kastak,** V. (**1**).—*D. petényi* **sp. nov.** on *Barbus meridionalis petényi*, Szechoslovakia, p. 137 fig., **Kašták,** W. (**3**).—*D. vistulae* **sp. nov.** on gills of *Leuciscus cephalus*, *Rutilus rutilus*, Poland, p. 107 figs., **Prost,** M. (**1**).—*D. amphibothrium* Wag. on *Acerina cernua*, p. 314 figs., *anchoratus* (Duj.) on *Carassius carassius*, p. 317 figs., *auriculatus* (Nordm.) on *Abramis brama*, p. 319 figs., *cornu* Linst. on *Blicca bjorkna* and *Vimba vimba*, 321 figs., *crucifer* Wag. on *Rutilus rutilus* and *Scardinius erythrophthalmus*, p. 324 figs., *difformis* Wag. on *S. erythrophth.* and *Leuciscus cephalus*, p. 326 figs., *falcatus* Wedl on *Abramis brama* p. 327 figs., *fallax* Wag. on *Rutilus rutilus*, *Leuciscus cephalus*, *Blicca bjorkna*, p. 329 figs., *formosus* Kulwiec on *C. carassius*, p. 333 figs., *intermedius* Weg. on *C. carassius*, p. 334 figs., *nanus* Dog. & Bychow. on *R. rutilus*, *B. bjorkna*, *L. cephalus* p. 335 figs., *similis* Weg. on *R. rutilus* p. 357 figs., *sphyrna* Linst. on *R. rutilus*, *B. bjorkna*, *Vimba vimba*, p. 339 figs., *tuba* Linst. on *Aspius aspius* p. 341 figs., *wegeneri* Kulw. on *C. carassius*. p. 344 figs., *wunderi* Bychow. on *Abramis brama*, *B. bjorkna*, p. 346 figs., *vastator* Nyb. on *C. carassius*, p. 348 figs., *vistulae* Prost on *L. cephalus*, *R. rutilus*, p. 350 figs., *zandti* Bychow. on *A. brama*, p. 352 figs., sp. innom. on *R. rutilis*, p. 354 figs., Poland, **Prost,** M. (**2**).—*D. nuchalis* on *Hybognathus n. nuchalis* p. 192 figs., *osculus* on *Rhinichthys osculus robustus* p. 194 figs., *rhinichthius* on *R. atratulus meleagris* p. 194 figs., *semotilus* on *Semotilus a. atromaculatus* p. 195 figs., **spp. nov.,** N. America, **Wood,** R. A. & **Mizelle,** J. D.

Dactylotrema **gen. nov.,** Lepocreadiidae, defined p. 41, type : *squamatum* **sp. nov.** in int. of *Gerres* sp., Mexico, p. 40 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Dicrocoelioides Dollfus a subgenus of *Oswaldoia*, p. 374, **Dollfus,** R. P. (**11**).

Dicrocoelium pellucidum Pojm. in *Sorex araneus*, Poland, p. 147 figs., **Pojmanska,** T. (**1**).

Dictyocotyle coeliaca Nybelin in *Raja naevus*, Plymouth, p. 77 fig., **Llewellyn,** J. & **Green,** J. E.

Diphterostomum macrosaccum **sp. nov.** in stom. of *Neoclinus uninotatus*, California, p. 16 figs., **Montgomery,** W. R.

Diplangus mexicanus **sp. nov.** in int. of *Balistes verres*, Mexico, p. 46 fig., **Bravo-Hollis,** M. & **Manter,** H. W.

Diplostomum, key to spp. in N. American freshwater fish, p. 624, **Hoffman,** G. L. & **Hundley,** J. B.—*D. elongatus* [*sic*] **sp. nov.** from mesentery of *Trichogaster fasciatus*, India, p. 371 figs., **Singh,** K. S. (**2**).

Diplostomum baeri eucaliae **subsp. nov.,** cercaria experim. in *Stagnicola*

palustris, metacercaria nat. and experim. in *Eucalia inconstans*, adults nat. in *Anas p. platyrhynchos*, experim. in chicks and *Otus asio*, N. America, p. 613 figs., **Hoffman,** G. L. & **Hundley,** J. B.—*D. phoxini* Faust cercaria in *Lymnaea pereger*, metacerc. in brain of *Phoxinus phoxinus*, Britain, p. 126 figs., **Rees,** G.—*D. spathaceum* (Rud.) cercaria in *Lymnaea stagnalis*, *L. peregra* and *L. palustris*, Finland, p. 57 figs., **Wikgren,** B. J.

Diplozoon v. Nordm., key to spp., p. 181, *ghanense* **sp. nov.** on gills of *Alestes macrolepidotus*, Ghana, p. 178 figs., **Thomas,** J. D. (**3**).—*D. paradoxum* Nordm. on *Rutilus*, *Blicca*, *Abramis*, *Aspius*, *Leuciscus*, *Vimba*, *Carassius*, *Acerina*, Poland, p. 362 figs., **Prost,** M. (**2**).—*D. tetragonopterini* **sp. nov.** on gills of *Ctenoberycon spilurus* and *Gymnocorymbus ternetzi*, in an aquarium, Germany, p. 181 figs., **Sterba,** G.

Distomum amphoraeformis Mödlinger transf. to *Allassogonoporus*, p. 691, **Dubois,** G. (**1**).

Dollfustrema californiae **sp. nov.** in int. of *Gymnothorax mordax*, California, p. 14 figs., **Montgomery,** W. R.

Echinoparyphium groenlandicum **sp. nov.** in *Erolia maritima*, Greenland, p. 14 figs., **Baer,** J. G. (**1**).—*E. agnatum* Dietz in *Pernis apivorus*, *Strix aluco*, Poland, p. 262 fig., **Furmaga,** S. (**2**).—*E. cinctum* var. *phasianina* **var. nov.** in int. of *Phasianus colchicus* p. 108 figs., *phasianinum* **sp. nov.** in int. of *P. c.*, p. 109 figs., Kirgizia, Russia, **Gagarin,** V. G. (**1**).

Echinostoma malayanum Leiper transf. to *Artyfechinostomum*, p. 181, **Bisseru,** B. (**3**).—*E. rousseloti* **sp. nov.** in int. of *Porphyrula alleni*, Congo, p. 379 figs., **Dollfus,** R. P. (**6**).—*E. phasianina* **sp. nov.** in int. of *Phasianus colchicus* p. 106 fig., *uitalica* **sp. nov.** in int. of *P. c.*, p. 106 fig., Kirgizia, Russia, **Gagarin,** V. G. (**1**).—*E. revolutum* (Fröl.) cercaria in *Lymnaea stagnalis*, Finland, p. 26 fig., **Wikgren,** B. J.

Enenterum aureum Linton redescr. from *Kyphosus elegans*, Islas Tres Marias, Mexico, p. 404 fig., **Winter,** H. A.

Entobdella curvunca **sp. nov.** on skin of *Hippoglossus hippoglossus*, Canada, p. 747 figs., **Ronald,** K. (**2**).

Episthmium colymbi **sp. nov.** in *Colymbus cristatus*. Russia, p. 327 figs., **Shigin,** A. A.

Fasciola indica Varma a syn. of *gigantica* Cobbold, p. 168, **Sarwar,** M. M. (**3**).

Fellodistomum fellis (Olss.) and *agnotum* Nicoll from *Anarhichas* differentiated, p. 23, **Brinkmann,** A. (**2**).

Fibricola sarcophila **sp. nov.** in stom. and int. of *Sarcophilus harrisii*, Tasmania, p. 257 fig., **Sandars,** D. F. (**7**).

Gastrodiscus aegyptiacus (Cobbold) in *Phacochoerus aethiopicus*, Belgian Congo, p. 25, **Prudhoe,** S. (**2**).

Genolinea tanyopa **sp. nov.** in stom. of *Medialuna californiensis* (type host) and *Hypsypops rubicunda*, California, p. 30 figs., **Montgomery,** W. R.

Genolopa bupharynx **sp. nov.** in int. of *Haemulon scudderi*, Pacific coast of Mexico, p. 254 figs., **Bravo-Hollis,** M.

Genitocotyle heterostichi **sp. nov.** in int. of *Heterostichus rostratus*, California, p. 22 figs., **Montgomery,** W. R.

Gigantocotyle explanatum (Crepl.) (syn. *bathycotyle* Fischdr.) in liver of buffalo, Ceylon, p. 83 figs., **Kulasiri,** C. & **Seneviratne,** R. D.—*G. lerouxi* **sp. nov.** in stom. of *Onotragus leche*, N. Rhodesia, p. 432 figs., **Yeh,** L. S. (**5**).

Gorgoderidae : key to macrocercous cercariae, p. 88, **Dunagan,** T. T. (**1**).

Guggenheimia **gen. nov.,** Lepocreadiidae, defined p. 40, type : *pacifica* **sp. nov.** in int. of *Balistes verres*, *B. capistratus*, Mexico, p. 39 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Gymnophallus sp. innom. in gall-bl. of *Somateria mollissima*, p. 5 fig., *bilis* **sp. nov.** in gall-bl. of *Clangula hyemalis*, p. 7 fig., Iceland, **Brinkmann,** A. (**2**).

Gynaecotyla adunca (Linton) metacercariae in *Uca pugilator* and *Talorchestia megalophthalmia*, N. America, p. 493, **Hunter,** W. S. & **Vernberg,** W. B.

Gyrodactylus v. Nordm., systematics, *wageneri aphyae* **subsp. nov.** on *Phoxinus phoxinus*, p. 51 fig., *wageneri scardinii* **subsp. nov.** on *Leuciscus erythrophthalmus*, *Alburnus alburnus*, p. 51 figs., *wageneri tincae* **subsp. nov.** on *Tinca tinca*, p. 52 fig., *wageneri cernuae* **subsp. nov.** on *Acerina cernua*, p. 52 figs.,

wageneri lucii **subsp. nov.** on *Esox lucius*, p. 52 fig., *salaris* **sp. nov.** on *Salmo salar*, p. 54 fig., *lavareti* **sp. nov.** on *Coregonus lavaretus*, p. 54 fig., *macronychus* **sp. nov.** on *Phoxinus phoxinus*, p. 56 fig., *longiradix* **sp. nov.** on *Acerina cernua*, p. 56 fig., *callariatus* **sp. nov.** on *Gadus callarias*, p. 56 fig., *aculeati* **sp. nov.** on *Gasterosteus aculeatus*, p. 57 fig., *decorus* **sp. nov.** on *Leuciscus erythrophthalmus*, p. 58 fig., *phoxini* **sp. nov.** on *Phoxinus phoxinus*, p. 58 fig., *magnificus* **sp. nov.** on *P. phoxinus*, p. 60 fig., *elegans* (Nordm.) (syn. *parvicopula* Bychowsky) on *Abramis brama*, p. 60 fig., *wageneri* **sp. nom. nov.** pro *elegans* of Wagener, 1860, p. 61, *flesi* **sp. nov.** on *Pleuronectes flesus*, p. 62 fig., *robustus* **sp. nov.** on *P. flesus*, p. 62 fig., *harengi* **sp. nov.** on *Clupea harengus membras*, p. 64 fig., *rarus* Wegener on *Gasterosteus pungitius*, p. 64 fig., *minimus* **sp. nov.** on *Phoxinus phoxinus*, p. 65 fig., *laevis* **sp. nov.** on *P. phoxinus*, 0. 65 fig., Sweden, **Malmberg,** G. (**1**).—*G. eucaliae* **sp. nov.** on gills and skin of *Eucalia inconstans*, N. Dakota, p. 451 figs., **Ikezaki,** F. M. & **Hoffman,** G. L.—*G. raabei* **sp. nov.** on gills of *Acerina cernua*, Poland, p. 112 figs., **Prost,** M. (**1**).—*G. parvicopula* Bychow. on *Abramis brama*, *Blicca bjorkna*, p. 359 figs., *raabei* Prost on *Acerina cernua*, p. 360 figs., sp. innom. on *Rutilus rutilus*, p. 361 figs., Poland, **Prost,** M. (**2**).—*G. bairdi* on *Cothus b. bairdii* p. 186 figs., *couesius* on *Couesius plumbius dissimilis* p. 187 figs., *egregius* on *Richardsonius egregius* p. 189 figs., *limi* on *Umbra limi* p. 189 figs., *micropogonus* on *Micropogon undulatus* p. 190 figs., *rhinichthius* on *Rhinichthys osculus robustus* p. 191 figs., *richardsonius* on *R. egregius* p. 191 figs., **spp. nov.,** N. America, **Wood,** R. A. & **Mizelle,** J. D.

Hamacreadium mutabile Linton in caeca of *Mycteroperca pardalis*, California, p. 44, **Bravo-Hollis,** M. & **Manter,** H. W.—*H. leiperi* **sp. nov.** in int. of "marine cat-fish", p. 66 fig., *krusadaiensis* **sp. nov.** in int. of "marine cat-fish", p. 68 fig., India, **Gupta,** N. K. (**1**).

Helicometra pretiosa **sp. nov.** in int. of *Paralabrax maculofasciatus*, Mexico, p. 44 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Heteraxine Yamaguti defined, p. 43, *karavoli* **sp. nov.** on gills of *Parastromateus niger*, India, p. 46 figs., **Unnithan,** R. V.

Heteraxininae **subfam. nov.,** Axinidae, defined p. 42, to incl. *Heteraxine* Yamaguti, *Zeuxapta* n.g. and *Kannaphallus* n.g., p. 43, **Unnithan,** R. V.

Hurleytrema longitestis **sp. nov.** in int. of *Citula dorsalis* and *Selene brevoorti*, Pacific coast of Mexico, p. 262 figs., **Bravo-Hollis,** M.

Hypocreadium Ozaki, systematic note, p. 36, *myohelicatum* **sp. nov.** in int. of *Balistes capistratus*, Mexico, p. 38 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Hypoderaeum conoideum (Bloch) cercaria in *Lymnaea peregra*, Finland, p. 27 figs., **Wikgren,** B. J.

Hysterolecitha crassivesiculata **sp. nov.** in urinary bladder of *Cirrhitus rivulatus*, Pacific coast of Mexico, p. 264 figs., **Bravo Hollis,** M.

Hysterolecithoides pseudorosea **sp. nov.** in urinary bladder of *Cirrhitus rivulatus*, Pacific coast of Mexico, p. 266 figs., **Bravo Hollis,** M.

Ignavia de Freitas, systematic note, *venusta* de Freitas redescr. from ureters of *Cuncuma vocifer* and *Ardea goliath*, Sudan, p. 229, figs., *renale* (Yeh) n. comb., p. 232, **Wright,** C. A.

Jeancadenatia Dollfus defined p. 406, *dohenyi* **sp. nov.** in int. of *Kyphosus elegans*, Islas Tres Marias, Mexico, p. 407 figs., **Winter,** H. A.

Kannaphallus **gen. nov.,** Axinidae, defined p. 43, type : *virilis* **sp. nov.** on gills of *Caranx atropus*, India, p. 52 figs., **Unnithan,** R. V.

Kuhnia scombri (Kuhn), validity, p. 31, description of posterior adhesive organs, p. 32, **Llewellyn,** J. (**4**).

Labrifer secundus Manter redescr. from *Pimelometopon pulchrum*, California, p. 23 fig., **Montgomery,** W. R.

Lecithochirium sinaloense **sp. nov.** in stom. of *Muraenesox coniceps*, Pacific coast of Mexico, p. 270 figs., **Bravo-Hollis,** M.

Lecithodendriinae, key to genera, p. 62, **Cheng,** T. C. (**3**).

Lecithodendrium linstowi Dollfus, morphol. note, from *Eptesicus n. nilssoni*, *E. s. serotinus*, *Myotis m.*

mystacinus, *Pipistrellus p. pipistrellus*, France and Switzerland, p. 686, **Dubois,** G. (**1**).

Lepidapedon epinepheli **sp. nov.** in int. and caeca of *Epinephelus analogus*, Mexico, p. 35 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Leurodera pacifica Manter in stom. *Lythrulon* sp., Pacific coast of Mexico, p. 270 fig., **Bravo-Hollis,** M.

Loxura **gen. nov.,** Axinidae, defined p. 45 type : *ananaphallus* on gills of *Tylosurus leiurus*, p. 99 figs., *sasikala* on gills of *Cypselurus oligolepis* p. 105 figs., **spp. nov.,** India, **Unnithan,** R. V.

Lyperosomum longicauda (Rud.) in *Corvus cornix*, France, p. 370 fig., **Dollfus,** R. P. (**11**).—*L. petiolatum* Raill. redescr. from *Garrulus glandarius*, Slovakia, p. 510 fig., **Macko,** J. K.

Macrogyrodactylus **gen. nov.,** Gyrodactylinae, defined, p. 317, type : *polypteri* **sp. nov.** on skin and fins of *Polypterus senegalus*, Gambia, p. 317 figs., **Malmberg,** G. (**2**).

Maritrema uca **sp. nov.** ; cercaria in *Cerithidea californica*, metacerc. in *Uca crenulata*, California, p. 35 figs., **Sarkisian,** L. N.

Mesocoelium monodi Dollfus in *Bufo regularis*, *Rana mascariensis*, Belgian Congo, p. 9 fig., **Prudhoe,** S. (**2**).

Mesothatrium Skarbilovitch a syn. of *Acanthatrium*, p. 60, **Cheng,** T. C. (**3**).

Mesotretes peregrinus (Brn.), some redescr., from *Rhinolophus f. ferrumequinum*, France, p. 685, **Dubois,** G. (**1**).

Metadena leilae **sp. nov.** in *Lethrinus rostratus*, Red Sea, p. 219 fig., **Nagaty,** H. F.

Metorchis sp. innom. (syn. *Cercaria lophocerca* Filippi) cercaria in *Bithynia tentaculata*, Finland, p. 25 figs., **Wikgren,** B. J.

Microtyle chrysophrii v. Ben. & Hesse on *Chrysophrys aurata*, larva descr., p. 187 figs., *labracis* v. Ben. & Hesse on *Labrax lupus*, larva descr., p. 189 figs., *mormyri* Lorenz on *Pagellus mormyrus*, larva descr., p. 190 figs., *sargi* Par. & Per. on *Sargus* spp., larva descr., p. 191 figs., France, **Euzet,** L. (**2**).

Microcotyloidea **superfam. nov.,** to incl. families Microcotylidae, Axinidae and Gastrocotylidae, defined p. 41, **Unnithan,** R. V.

Microphallus similis (Jägersk.) cercaria in *Littorina saxatilis* and *L. littorea*, metacercaria in *Carcinides maenas*, adult in *Larus argentatus* and *Sterna hirundo*, N. America. p. 254 figs., **Stunkard,** H. W. (**1**).

Mizelleus **gen. nov.,** Tetraonchinae, defined p. 61, type : *indicus* **sp. nov.** on gills of *Wallagonia attu*, India, p. 57 figs., **Jain,** S. L.

Monaxine **gen. nov.,** Axinidae, defined p. 44, type : *formionis* **sp. nov.** on gills of *Parastromateus niger*, India, p. 60 figs., **Unnithan,** R. V.

Monaxininae **subfam. nov.,** Axinidae, defined, to incl. *Monaxine* n.g., *Crotalaxine* n.g., *Amonaxine* n.g. and *Uraxine* n.g., p. 44, **Unnithan,** R. V.

Murraytrema Price, redefined p. 169, **Mizelle,** J. D. et al.

Myodera **gen. nov.,** Waretrematidae, defined p. 27, type : *medialunae* **sp. nov.** in int. of *Medialuna californiensis*, California, p. 26 figs., **Montgomery,** W. R.

Myosaccium **gen. nov.,** Hemiuridae, defined p. 32, type : *ecaude* **sp. nov.** in stom. of *Sardinops caerulea*, California, p. 32 figs., **Montgomery,** W. R.

Nematostrigea hepatica Dubois in *Scopus u. umbretta*, Belgian Congo, 0. 31, **Dubois,** G. & **Fain,** A.—*N. serpens* (Nitzsch) in *Pandion haliaetus*, *Buteo buteo* Poland, p. 248 figs., **Furmaga,** S. (**2**).

Neodiplostomum (*N.*) *spathoides* Dubois in *Buteo rufofuscus augur* p. 32 fig., (*N.*) *aluconis* Tubangui in *Tyto c. capensis* p. 32, (*Conodiplostomum*) *butasturinum* (Tub.) in *Aquila r. rapax*, p. 33 figs., Belgian Congo, **Dubois,** G. & **Fain,** A.—*N. garnhami* **sp. nov.** in *Astur badius*, p. 327 fig., (*N.*) *lerouxi* **sp. nov.** in *Lobivanellus indicus*, p. 327 figs., (*N.*) *rufeni* Chatterji in *A. badius*, p. 333 fig., distinct from (*N.*) *hawkei* Chatt. p. 334, India, **Gupta,** N. K. (**2**).—*N. pseudattenuatum* (Dubois) in *Buteo buteo*, *B. lagopus*, p. 250 fig., *spathoides* Dub. in *Aquila clanga*, *Buteo lagopus*, p. 252 fig., *palumbarii* Dub. in

Accipiter gentilis, *Circus cyaneus*, p. 254 fig., Poland, **Furmaga,** S. (**2**).

Neogyrodactylus **gen. nov.** [*nec* Prudhoe], Gyrodactylidae, defined p. 44, type : *indicus* **sp. nov.** on parasitic crustacean, *Argulus indicus*, from *Ophiocephalus marulius*, W. Bengal, p. 40 figs., [issued 11 July, 1957], **Baugh,** S. C.

Neogyrodactylus **gen. nov.,** [*nec* Baugh] Gyrodactylidae, defined p. 9, type : *congolensis* **sp. nov.** on skin of *Clarias lazera*, Belgian Congo, p. 5 figs., [issued 6 July, 1957], **Prudhoe,** S. (**2**).

Neolepidapedon medialunae **sp. nov.** in liver of *Medialuna californiensis*, California, p. 18 fig., **Montgomery,** W. R.

Neoparadiplostomum **gen. nov.,** Proterodiplostomatidae, defined p. 99, type : *magnitesticulatum* **sp. nov.** in int. of *Crocodilus niloticus*, p. 85 figs., *kafuensis* **sp. nov.** in int. of *C. niloticus*, p. 89 figs., N. Rhodesia, **Bisseru,** B. (**2**).

Neopolystoma cyclovitellum **sp. nov.** in urinary bladder of *Geomyda melanosterna*, Panama, p. 415 figs., **Caballero y C.,** E., et al.

Nephrostomum ramosum (Sons.) in *Kaupifalco monogrammicus meridionalis*, Belgian Congo, p. 10, **Prudhoe,** S. (**2**).

Notocotylus noyeri Joyeux in *Microtus agrestis*, Poland, p. 494 figs., **Soltys,** A.—*N.* sp. innom. cercaria in *Lymnaea stagnalis*, *L. peregra* and *L. palustris*, Finland, p. 16 figs., **Wikgren,** B. J.

Ochoterenatrema caballeroi **sp. nov.** in *Molossops* sp., Brazil, p. 285 figs., **Teixeira de Freitas,** F. J. (**2**).

Oligapta **gen. nov.,** Axinidae, defined p. 45, type : *oligapta* **sp. nov.** on gills of *Hemiramphus georgii*, India, p. 112 figs., **Unnithan,** R. V.

Olveria indica Thapar & Sinha, morphology of miracidium, p. 353 figs., **Tandon,** R. S. (**1**).

Opechona occidentalis **sp. nom. nov.** pro *Pharyngora bacillaris* of McFarlane, 1936, in int. of *Sebastodes atrovirens*, California, p. 17 fig., **Montgomery,** W. R.

Opecoeloides manaarensis **sp. nov.** in int. of *Upeneoides* sp., India, p. 71 figs., **Gupta,** N. K. (**1**).

Opegaster lutiani **sp. nov.** in int. of *Lutianus aratus*, California, p. 42 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Opisthioglyphe natricis **sp. nov.** in *Natrix natrix* var. *persa* and *N. viperina*, France and Italy, p. 42 figs., *ranae* (Fröl.) in *N. natrix*, France, p. 53 fig., **Dollfus,** R. P. (**10**).—*O. soricis* Pojm. in *Sorex araneus*, Poland, p. 145 figs., **Pojmanska,** T. (**1**).

Opisthorchis Blanchard, systematics, defined, p. 193, *geminus* (Lss.) in *Plectropterus gambensis* and *Dendrocygna viduata*, N. Rhodesia, p. 199 figs., **Bisseru,** B. (**4**).

Ornithodiplostomum podicipitis Yamag. metacerc. encysted in viscera of *Oryzias laticeps ;* and sp. innom. metacerc. free in *O. laticeps*, p. 55 figs., **Toyo-Oka,** R. & **Okada,** K.

Oswaldoia (*Dicrocoelioides*) *skrjabini* (Soloviev) in *Corvus cornix* and *C. frugilegus*, p. 371 figs., (*D.*) *panduriformis* (Raill.) in *Pica pica*, p. 375 fig., (*D.*) *petiolata* (Raill.) in *Garrulus glandarius*, *Pica pica*, *Merula merula*, p. 377 figs., France, **Dollfus,** R. P. (**11**).

Paradistomum orientalis Nar. & Das (syn. *moghei* Bhal.) redescr. from *Calotes vesicolor*, India, p. 881 figs., **Krishnaswami,** S. K. & **Anantaraman,** M.—*P. passerculum* **sp. nov.** in bile-ducts of *Passerculus sandwichensis alaudinus*, Idaho, p. 187 figs., **Schell,** S. C.

Paragonimus rudis Diesing in *Urocyon cinereoargenteus costaricensis*, Costa Rica, p. 397 fig., **Caballero y C.,** E. (**3**).

Paralepidauchen **gen. nov.,** systematic position uncertain, [resembles *Plagiorchis*], type : *avium* **sp. nov.** in int. of *Larus ridibundus*, Iceland, p. 25 fig., **Brinkmann,** A. (**2**).

Paramonostomum malerischi **sp. nov.** in caecum of *Philacte canagica*, Alaska, p. 586 figs., **Dunagan,** T. T. (**2**).

Paramphistomum microbothrium Fischdr. in *Adenota*, *Bubalus*, *Hippotragus*, *Kobus*, *Ourebia*, *Taurotragus* spp., Belgian Congo, p. 17 fig., **Prudhoe,** S. (**2**).

Parastrigea mexicanus **sp. nov.** in *Recurvirostra americana*, Mexico, p. 70 figs., **Coil,** W. H.—*P. thienponti* **sp. nov.** in int. of *Ibis ibis* p. 22 figs., *faini* Dubois in *Aquila*, *Buteo* and *Lophaetus*

spp., p. 24 figs., *astridae* Dub. in *Tyto c. capensis*, p. 25, Belgian Congo, **Dubois,** G. & **Fain,** A.—*P. intermedia* Tubangui in *Circus aeruginosus*, Poland, p. 239 fig., **Furmaga,** S. (**2**).

Paratormopsolus **gen. nov.,** Acanthocolpidae, type : *siluri* **sp. nov.** in *Silurus glanis* and *Glyptosternum reticulatum*, Russia, p. 788 figs., **Bychowsky,** B. E. & **Dubinina,** M. N.

Paryphostomum Dietz, systematic note, *radiatum* (Duj.) in *Anhinga rufa levaillantii*, N. Rhodesia, p. 179 fig., **Bisseru,** B. (**3**).

Pellamyzon **gen. nov.,** Opecoelidae, defined p. 20, type : *sebastodis* **sp. nov.** in int. of *Sebastodes serriceps* (type-host) and *S. atrovirens*, California, p. 20 figs., **Montgomery,** W. R.

Petasiger Dietz, systematic note, *variospinosus* (Odhn.) in *Anhinga rufa levaillantii*, N. Rhodesia, p. 182 figs., **Bisseru,** B. (**3**).

Pharyngora bacillaris (Molin) of McFarlane, 1936, renamed *Opechona occidentalis*, p. 17, **Montgomery,** W. R.

Pharyngostomoides **sp. nov. innom.** in int. of *Dasyurus maculatus*, Tasmania, p. 263, **Sandars,** D. F. (**7**).

Pholeter Odhn., systematic affinities, p. 211 fig., **Dollfus,** R. P. (**7**).

Phyllodistomum carangis Manter in body-cavity of *Citula dorsalis*, Mexico, p. 45, *marinae* **sp. nov.** in urinary-bladder of *Mycteroperca pardalis*, California, p. 45 fig., **Bravo-Hollis,** M. & **Manter,** H. W.—*P. bufonis* **sp. nov.** in urinary bladder of *Bufo boreas*, Utah, p. 329 fig., **Frandsen,** J. C.

Plagioporus serotinus Staff. in "marine cat-fish", India, p. 64 fig., **Gupta,** N. K. (**1**).—*P. lepomis* Dobrovolny a syn. of *boleosomi* (Pearse) n. comb., p. 140, *P.* [*Allocreadium*] *oncorhynchi* (Eguchi) n. comb., p. 140, **Peters,** L. E. (**1**).

Plagiorchis (*Multiglandularis*) *stefanskii* Furmaga redescr. from *Apodemus sylvaticus*, *A. agrarius*, p. 16 fig., (*Plagiorchis*) *raabei* Furm. redescr. from *A. sylvaticus*, p. 18 fig., Poland, **Furmaga,** S. (**1**).—*P. elegans* (Rud.) in *Falco subbuteo*, Poland, p. 258 fig., **Furmaga,** S. (**2**).—*P.* (*Multiglandularis*) *polonicus* **sp. nov.** in int. of *Microtus agrestis*, Poland, p. 492 fig., **Soltys,** A.

Pleorchis americanus Lühe in int. of *Cynoscion reticulatus*, Pacific coast of Mexico, p. 252 fig., **Bravo-Hollis,** M.

Podocotyle musculometra **sp. nov.** in int. and caeca of *Hoplopagrus guntheri*, California, p. 42 figs., **Bravo-Hollis,** M. & **Manter,** H. W.

Poikilorchis **gen. nov.,** Achillurbainiidae, type : *congolensis* **sp. nov.** from subcutaneous cyst of man, Belgian Congo, p. 740 fig., **Fain,** A. & **Vandepitte,** J. (**1**).—*P.* **gen. nov.,** Achillurbainiidae, type : *congolensis* **sp. nov.** from subcutaneous abscess in man, Belgian Congo, p. 251 fig., **Fain,** A. & **Vandepitte,** J. (**2**).

Polystoma mangenoti in urinary bladder of *Rana* (*Ptychadaena*) *superciliaris*, p. 369 figs., *cachani* in urin. bl. of *R.* (*P.*) *longirostris*, p. 372 figs., **spp. nov.,** French Ivory Coast, **Gallion,** L.

Postharmostomum gallinum Witenb. in *Alectoris graeca*, Kirgizia, Russia, p. 105 fig., **Gagarin,** V. G. (**1**).

Prohemistomum milvi var. *indianum* Dubois in *Buteo rufofuscus augur*, Belgian Congo, p. 36 fig., **Dubois,** G. & **Fain,** A.

Prosotocus c. confusus (Lss.) metacercaria in Corduliinae larva, *Aeschna* larva and *Agabus bipustulatus*, adults experim. in *Rana esculenta*, *R. temporaria* and *Pleurodeles waltl*, Germany, p. 297 figs., **Odening,** K.

Prosthodendrium (*Prosthodendrium*), key to spp., p. 689, *ascidia* (v. Ben.) note, from *Myotis m. mystacinus*, Switzerland, p. 687, *aelleni* **sp. nov.** in int. of *Eptesicus n. nilssoni*, Switzerland, p. 687 fig., *longiforme* Bhalerao (syn. *bhaleraoi* Pande) redescr. from *Eptesicus s. serotinus*, France, p. 690, **Dubois,** G. (**1**).—*P. oligolecithum* Manter & Debus: type-host *Pipistrellus s. subflavus*, p. 185, **Jones,** J. K.—*P. cordiforme* (Braun) in unnamed bat, N. Rhodesia, p, 121 figs., **Yeh,** L. S. (**6**).

Prosthogonimus (*P.*) *ryjikowi* **sp. nov.** in bursa Fabricii of *Anas strepera*, Lake Issik-Kul, Kirgizia, Russia, p. 137 fig., **Ablasov,** N. A. (**1**).—*P. pellucidus* (Linst.) redescr. from *Anas boschas domestica* p. 288 figs., *cuneatus* (Rud.) redescr. from *Meleagris gallopavo* p. 289 figs., Czechoslovakia, **Birová,** V. &

Buša, V.—*P. ovatus* (Rud.) in *Falco subbuteo*, p. 260, *cuneatus* (Rud.) in *Accipiter nisus*, p. 261 fig., Poland, **Furmaga,** S. (**2**).

Pseudexorchis major (Hasegawa) cercaria redescr. from *Semisulcospira libertina, S. japonica* and *S. reiniana*, Japan, p. 1 figs., **Ito,** J.

Pseudobilharziella littlebi Byrd, 1956, transf. to *Bilharziella*, p. 374, **Byrd,** E. E.

Pseudolepidapedon balistis Manter in int. of *Balistes verres*, p. 246 fig., *sinaloense* **sp. nov.** in int. of *B. v.*, *B. capistratus* p. 248 figs., Pacific coast of Mexico, **Bravo-Hollis,** M.

Pseudomazocraes Cab. & Bravo redefined, p. 9, transf. to Vallisiinae, *selene* **sp. nov.** ["*Allodiscocotyle selene*" in legend to figs., p. 7] on gills of *Selene vomer*, Florida, p. 10 figs., **Hargis,** W. J. (**1**).

Psilochasmus indicus **sp. nov.** in int. of *Casarca rutila*, India, p. 452 fig., **Gupta,** P. D.—*P. oxyurus* (Crepl.) cercaria and metacerc. in *Littoridina australis*, adults experimentally in ducklings and chicks, naturally in *Dafila spinicauda*, Argentina, p. 24 figs., **Szidat,** L. (**3**).

Psilotrema pharyngeatum Grabda in *Microtus ratticeps*, Poland, 0. 149 fig., **Pojmanska,** T. (**1**).

Renicola goliath **sp. nov.** in kidneys of *Ardea goliath*, Sudan, p. 234 fig., **Wright,** C. A.

Sandonia **gen. nov.,** Paramphistomatidae, defined p. 251, type : *sudanensis* **sp. nov.** in int. of *Synodontis schall* and *Distochodus niloticus*, Sudan, p. 247 figs., **McClelland,** W. F. J.

Schistorchis haridis **sp. nov.,** in *Pseudoscarus harid*, Red Sea, p. 217 fig., **Nagaty,** H. F.

Schistosoma bovis (Sons.) in *Camelus dromedarius*, Egypt, p. 171 figs., **Soliman,** K. N.

Scorpidicola **gen. nov.,** Waretrematidae, defined p. 24, type : *californiensis* **sp. nov.** in int. of *Medialuna californiensis*, California, p. 24 figs., **Montgomery,** W. R.

Sphaerostoma bramae (Müll.) cercaria in *Bithynia tentaculata*, Finland, p. 71 figs., **Wikgren,** B. J.

Spiritestis Nagaty transf. to Waretrematidae, *arabii* Nagaty re-examined. p. 27 fig., **Montgomery,** W. R.

Staphylorchis parisi **sp. nov.** in int. of *Scoliodon walbeehmi*, Ceylon, p. 193 figs., **Crusz,** H.

Stenopera Manter redefined, p. 62 *pteroisi* **sp. nov.** in *Pterois russelii*, India, p. 62 fig., **Gupta,** N. K. (**1**).

Stephanostomum platacis **sp. nov.** in *Platax* sp. p. 217 figs., *naucrotis* **sp. nov.** in *Naucrotes* [sc. *Naucrates*] *ductor* p. 218 figs., *casum* (Linton) in *Lethrinus mehsenoides, L. nebulosus, Sargus noct* and *Balistes aculeatus* p. 218 figs., Red Sea, **Nagaty,** H. F.

Steringophorus lethrini **sp. nov.** int. of *Lethrinus* sp., India, p. 80 fig., **Gupta,** N. K. (**1**).

Strigea gracilicollis **sp. nov.** in int. of *Buteo rufofuscus augur*, p. 18 figs., *falconis* Szidat in *Lophaëtus occipitalis* p. 20, Belgian Congo, **Dubois,** G. & **Fain,** A.—*S. elongata* Yamag. in *Buteo lagopus, Circus aeruginosus*, p. 241 fig., *falconis* Szidat in *Falco subbuteo, Accipiter gentilis, Circus cyaneus, C. aeruginosus, Haliaëtus albicilla, Aquila chrysaëtus, A. clanga, Buteo buteo, B. lagopus, Pernis apivorus*, p. 243 figs., *strigis* (Schr.) in *Asio otus, Athene noctua, Strix aluco*, p. 246 figs., Poland, **Furmaga,** S. (**2**).

Telorchis rapidulus **sp. nov.** in int. of *Kinosternon s. scorpioides*, Brazil, p. 509 figs., **Dobbin,** J. E.—*T. assula* (Duj.) (= *ercolani* Montic) in *Natrix natrix*, p. 41, **Dollfus,** R. P. (**10**).—*T. panamensis* **sp. nov.** in int. of *Kinosternon panamensis*, Panama, p. 425, figs., **Caballero y C.,** E., et al.

Tetraonchus Dies. redefined, list of N. American spp., p. 175, **Mizelle,** J. D. et al.—*T. monenteron* (Wag.) on *Esox lucius*, Poland, p. 356 figs., **Prost,** M. (**2**).

Thapariella sp. innom. (metacercaria) on *Lanistes* (prob. *procera*), Belgian Congo, p. 11 fig., **Prudhoe,** S. (**2**).

Thapariellidae Sriv. a syn. of Brachylaemidae, p. 13, **Prudhoe,** S. (**2**).

Trichobilharzia alaskensis **sp. nov.** cercaria in *Lymnaea stagnalis*, Alaska, adults experim. in Pekin ducklings, p. 31, **Harkema,** R., **McKeever,** S. & **Becker,** D. A.

Tylodelphys clavata (v. Nordm.) in *Buteo rufofuscus augur*, Belgian Congo, p. 35 fig., **Dubois,** G. & **Fain,** A.—*T. excavata* (Rud.) in *Circus aeruginosus*, Poland, p. 255 fig., *clavata* (Nordm.) in *Circus aeruginosus*, *Buteo buteo*, p. 257, fig., Poland, **Furmaga,** S. (**2**).

Typhlocoelum Stoss., systematic note, defined, p. 178, *cucumerinum* (Rud.) in trachea of *Sarkidiornis melanota* and *Dendrocygna fulva*, N. Rhodesia, p. 173 fig., **Bisseru,** B. (**3**).

Uraxine **gen. nov.,** Axinidae, defined, p. 44, type : *chura* **sp. nov.** on gills of *Euthynnus affinis* p. 73 figs., *chura macrova* **subsp. nov.** on gills of *E. affinis*, p. 78 figs., India, **Unnithan,** R. V.

Urocleidus Mueller redefined, p. 169, list of N. American spp., p. 170, **Mizelle,** J. D. et al.—*U.* (Mueller) on *Archoplites interruptus*, p. 196, figs., California, **Wood,** R. A. & **Mizelle,** J. D.

Urotocus Lss., key to spp., p. 220, life-history of *tholonetensis* Timon-David, p. 219 figs., **Timon-David,** J. (**2**).

Urotrema scabridum Brn., redescr. from *Myotis b. bocagei*, Ivory Coast, p. 693, **Dubois,** G. (**1**).

Vallisia Perugia & Parona redefined p. 4, *oligoplites* **sp. nov.** on gills of *Oligoplites saurus*, Florida, p. 6 figs., **Hargis,** W. J. (**1**).

Vallisiinae Price redefined p. 3, **Hargis,** W. J. (**1**).

Vitellibaculum **gen. nov.,** Waretrematidae, defined p. 28, type : *girellae* [also spelt *girella*] **sp. nov.** in int. of *Girella nigricans*, California, p. 28 figs., **Montgomery,** W. R.

Xystretum caballeroi B.-H. in urinary bladder of *Balistes verres*, Mexico, p. 46, **Bravo-Hollis,** H. & **Manter,** H. W.

Yamagutia anarhichae **sp. nov.** in gall-bl. of *Anarhichas minor*, Iceland, p. 17 ag., **Brinkmann,** A. (**2**).

Zeuxapta **gen. nov.,** Axinidae, defined p. 43, type : *zyxivaginata* **sp. nom. nov.** pro *Axine seriolae* Meserve *nec* Ishii, p. 43, **Unnithan,** R. V.

CESTODA

Acanthocirrus retirostris (Kr.) n. comb. (syn. *macrorostratus* Fuhrm.) in *Erolia alpina*, *E. maritima* and *Arenaria interpres*, p. 33 figs., **Baer,** J. G. (**1**).

Allohymenolepis **gen. nov.,** Hymenolepididae, defined p. 31, type : *mitudori* **sp. nov.** in meliphagid bird, Celebes, p. 28 figs., **Yamaguti,** S. (**2**).

Amoebotaenia yamasigi in int. of *Scolopax rusticola*, p. 3 fig., *awogera* in int. of *Picus a. awokera*, p. 4 figs., **spp. nov.,** Japan, **Yamaguti,** S. (**1**).—*A. longisacculus* in sm. int. of *Gallus gallus*, p. 1, figs., *spinosa* in sm. int. of *Gallus gallus*, p. 5 figs., **spp. nov.,** Celebes, **Yamaguti,** S. (**2**).

Anomotaenia armillaris (Rud.) (syn. *sociabilis* Ransom) in *Uria lomvia*, p. 22 figs., *campylacantha* (Kr.) in *Cepphus grylle*, p. 25 figs., *meinertzhageni* **sp. nov.** in *Uria lomvia* p. 25 figs., *larina* (Kr.) in *Rissa tridactyla* and *Larus hyperboreus* p. 28 figs., *micracantha* (Kr.) in *Larus glaucoides* p. 29 figs., *borealis* (Kr.) in *Emberizia nivalis* p. 30 figs., Greenland, **Baer,** J. G. (**1**).—*A. mollis* (Volz) in *Cerchneis tinnunculus*, *Buteo buteo*, Poland, p. 266 fig., **Furmaga,** S. (**2**).—*A. binzui* **sp. nov.** in sm. int. of *Anthus hodgsoni borezowskii*, Japan, p. 6 figs., **Yamaguti,** S. (**1**).—*A. rowettiae* **sp. nov.** in int. of *Rowettia goughensis*, London Zoo, p. 297 figs., **Yeh,** L.-S. (**9**).

Anonchotaenia globata (v. Linst.) in *Alauda arvensis japonica*, p. 9 figs., *zanthopygiae* **sp. nov.** in sm. int. of *Zanthopygia n. narcissina*, p. 10 figs., Japan, **Yamaguti,** S. (**1**).

Anoplotaenia dasyuri Beddard in *Sarcophilus harrisi*, Tasmania, p. 317 figs., **Sandars,** D. F. (**1**).

Aploparaksis groenlandica (Kr.) redescr. from *Clangula hyemalis*, Greenland, p. 38 figs., **Baer,** J. G. (**1**).

Aprostatandrya (*Aprostatandrya*) *macrocephala* Douthitt redescr. from *Microtus arvalis*, Poland, p. 22 figs., **Furmaga,** S. (**1**).—*A. caucasica* (Kirschenbl.)

redescr. from *Microtus arvalis*, *M. ratticeps*, Poland, pp. 121, 124, figs., **Pojmanska,** T. (**1**).

Arctotaenia **gen. nov.,** Dilepidinae, defined p. 38, type : [*Taenia*] *tetrabothrioides* (Loennbg.) in *Erolia maritima* p. 36 figs., to incl. also *recapta* (Clerc) from *Erolia minuta*, p. 38, **Baer,** J. G. (**1**).

Ascometra vestita Cholodk. in *Chlamydotis undulata*, Morocco, p. 336 figs., **Dollfus,** R. P. (**15**).

Baerietta desmognathi **sp. nov.** in *Desmognathus f. fuscus*, N. America, no morphol. descr., p. 24, **Douglas,** Z. T. (**1**).

Bancroftiella toratugumi **sp. nov.** in sm. int. of *Turdus a. aureus*, Japan, p. 7 figs., **Yamaguti,** S. (**1**).

Calostaurus **gen. nov.,** Davaineidae, defined p. 335, type : *Raillietina* (*P.*) *macropa* Ortlepp in *Macropus brunii*, redescr. from *Thylogale wilcoxi*, S. Australia, p. 330, figs., **Sandars,** D. F. (**2**).

Catenotaenia pusilla (Gze.) redescr. from *Apodemus sylvaticus* and *Mus musculus*, Poland, p. 27 figs., **Furmaga,** S. (**1**).

Choanotaenia crassiscolex (Linst.) in *Sorex araneus*, Poland, p. 142 figs., **Pojmańska,** T. (**1**).—*C. ratticola* **sp. nov.** in duodenum and upper ileum of *Rattus assimilis*, Australia, p. 66 figs., **Sandars,** D. F. (**4**).—*C. parina* (Duj.) in *Passer montanus*, Celebes, p. 12, **Yamaguti,** S. (**2**).

Cladotaenia cylindracea (Bloch) in *Falco tinnunculus*, *Accipiter gentilis*, *Circus aeruginosus*, *Buteo buteo*, *Buteo lagopus*, *Circus cyaneus*, *Falco peregrinus*, Poland, p. 263 figs., **Furmaga,** S. (**2**).

Cotugnia crassa Fuhrm. redescr. from *Numida mitrata marunguensis*, N. Rhodesia, p. 537 fig., **Bisseru,** B. (**1**).—*C. celebesensis* **sp. nov.** in sm. int. of *Geopelia striata*, Celebes, p. 14 figs., **Yamaguti,** S. (**2**).

Dasyurotaenia robusta Beddard in *Dasyurus maculatus*, Tasmania, p. 324 figs., **Sandars,** D. F. (**1**).

Davainea paucisegmentata Fuhrm. and *nana* Fuhrm. from *Numida mitrata marunguensis*, N. Rhodesia, morphol. comparison, p. 536 figs., **Bisseru,** B. (**1**).

Deltokeras Meggitt, systematic position, p. 445, *synallaxis* **sp. nov.** in *Synallaxis rutilans*, Brazil, p. 4411 figs., **Mahon,** J. (**2**).

Dendrometra **gen. nov.,** Dilepididae, defined p. 1, type : *ginesi* **sp. nov.** in int. of *Fregata magnificens*, Venezuela, p. 2 figs., **Jordano,** D. & **Diaz-Ungria,** C. (**1**), (**2**).

Dilepis megalorhyncha (Kr.) n. comb. in *Erolia maritima*, Greenland, p. 30 figs., *retirostris* (Kr.) transf. to *Acanthocirrus* p. 33, *recapta* Clerc. transf. to *Arctotaenia* p. 38, **Baer,** J. G. (**1**).—*D. maxima* Goss in *Microcarbo melanoleucus*, S. Australia, p. 131 figs., **Clark,** H. G.—*D. orientalis* Raill. & Henry redescr. from *Turdus a. aureus*, Japan, p. 2 figs., **Yamaguti,** S. (**1**).

Diorchis Clerc, comparative table of spp. from Ralliformes, pp. 472–473, *inflata* (Rud.) in *Fulica atra*, *Gallinula chloropus*, p. 450 figs., *brevis* **sp. nov.** in *F. a.*, *G. c.*, p. 453 figs., *ransomi* Schultz in *F. a.*, *G. c.*, p. 464 figs., Poland, **Rybicka,** K.—*D. flavescens* (Krefft) in *Anas strepera* and *A. crecca*, Kirgizia, Russia, p. 150 fig., **Ablasov,** N. A.

Diphyllobothrium mobile (Rennie & Reid) in *Leptonychotes weddelli* p. 78 figs., *lashleyi* (Leip. & Atkins.) in *L. w.*, p. 81, figs., *quadratum* (Linstow) in *Hydrurga leptonyx*, p. 83 figs., *scoticum* (Rennie & Reid) in *H. l.*, p. 85 figs., Antartica, **McEwin,** B.

Distoichometra kozloffi **sp. nov.,** spermatogenesis only described, p. 24, **Douglas,** L. T. (**2**).

Echinococcus granulosus (Gze.) and *multilocularis* (Leuck.) differentiated, life-histories, p. 404 figs., **Vogel,** H.

Eubothrium crassum (Bloch) redescr. from *Salmo trutta*, Britain, p. 103 figs., **Rawson,** D.

Glandicephalus perfoliatus (R. & H.) in *Leptonychotes weddelli*, p. 88 figs., *perfoliatus* var. *rufus* (Leip. & Atkins.) in *L. w.* p. 90 figs., Antarctica, **McEwin,** B.

Gryporhynchus nycticoracis **sp. nov.** in sm. int. of *Nycticorax n. nycticorax*, Japan, p. 8 figs., **Yamaguti,** S. (**1**).

Hydatigera krepkogorski Schulz & Landa in *Vulpes vulpes*, Azerbaidzhan, Russia, p. 128, **Sadikhov,** I. N.

Hymenolepis meggitti Shen in *Netta rufina* p. 141 fig., *japonica* Yamag. in *Colymbus ruficollis* p. 144 2 figs., *longistylosa* Shen in *Anas fabalis* p. 145, *venusta* (Rosseter) in *Anas acuta* p. 147 fig., *pingi* Shen in *Anas fabalis* p. 148 fig., Kirgizia, Russia, **Ablasov,** N. A. (**2**).—*H. coronula* (Duj.), morphol. note, from *Clangula hyemalis*, p. 41 fig., *ductilis* Linton redescr. fr. *Larus hyperboreus* p. 41 fig., *nitida* (Kr.) (syn. *lauriei* Davies, *litoralis* Webster, *crocethiae* Webster and *Dicranotaenia guschanskoi* Krotov) redescr. from *Crocethia alba*, p. 43 figs., *longirostris* (Rud.) in *Philomachus pugnax*, France, p. 49 figs., spp. of the "*Echinocotyle*" group defined p. 51, *hypoleuci* (Singh) a syn. of *uralensis* Clerc. p. 50, **Baer,** J. G. (**1**).—*H. cormoranti* Ortlepp in *Microcarbo melanoleucus* p. 131 figs., *phalacrocorax* (Woodland) in *M. melanoleucus*, p. 132 figs., S. Australia, **Clark,** H. G.—*H. serrula* Oswald redescr. from *Sorex fumeus*, N. America, p. 287 figs., **Cox,** D. D., et al.—*H. macyi* Locker & Rausch redescr. from *Sorex ornatus*, California, p. 1 figs., **Davis,** B. S. & **Voge,** M.—*H. villosa* (Bloch) in *Chlamydotis undulata*, Morocco, *Tetrax tetrax*, France, p. 331 figs., **Dollfus,** R. P. (**15**).—*H. anthocephalus* Van Grundy redescr. from *Blarina brevicauda*, S. Dakota, p. 131 figs., **Fasbender,** M. V.—*H. diminuta* (Rud.) redescr. from *Apodemus agrarius*, p. 24 figs., sp. innom. in *Apodemus sylvaticus*, p. 25 figs., Poland, **Furmaga,** S. (**1**).—*H. asymmetrica* (Janicki) redescr. as *Rodentolepis assymetrica* [*sic*] from *Microtus arvalis*, p. 129 figs., *scalaris* (Duj.) redescr. from *Sorex araneus*, *Crocidura mimula*, p. 131 figs., *scutigera* (Duj.) redescr. fr. *S. araneus*, p. 133 figs., *singularis* Cholodk. redescr. as *Neoskrjabinolepis s.* from *Sorex araneus*, *S. minutus*, p. 134 figs., *furcata* (Stieda) redescr. as *Staphylocystis f.* from *S. araneus*, p. 137 figs., *tiara* (Duj.), as *Staphylocystis t.*, from *Neomys fodiens*, p. 138 fig., Poland, **Pojmańska,** T. (**1**).—*H. peramelidarum* Nybelin in *Perameles nasuta*, *Thylacis obesulus*, Queensland, p. 335 figs., **Sandars,** D. F. (**2**).—*H. australiensis* **sp. nov.** in int. of *Rattus assimilis*, Australia, p. 73 figs., **Sandars,** D. F. (**4**).—*H. miniopteri* **sp. nov.** in ileum of *Miniopterus blepotis*, Australia, p. 79 figs., **Sandars,** D. F. (**5**).—*H. echinorostrae* **sp. nov.** in *Aythya affinis*, Alaska, p. 233 figs., **Schiller,** E. L. (**1**).—*H. jacobsoni* v. Linst. from *Suncus coeruleus*, India, p. 94 fig., **Voge,** M.

Idiogenes kori (Ortlepp) redescr. from *Neotis cafra denhami*, N. Rhodesia, p. 538 fig., **Bisseru,** B. (**1**).—*I. otidis* Kr. in *Choriotis arabs*, Morocco, *Tetrax tetrax*, France, p. 352 figs., *nana* Fuhrm. in *Chlamydotis undulata*, Morocco, p. 356 figs., *kolbei* var. *nanior* **var. nov.** in *Neotis cafra denhami*, French Sudan. p. 358 figs., *kolbei* Ortlepp. in *Eupodotis senegalensis*, French Sudan, p. 396 figs., **Dollfus,** R. P. (**15**).—*I. flagellum* (Gze.) in *Milvus korschun*, Poland, p. 267 figs., **Furmaga,** S. (**2**).—*I. otidis* Kr. redescr. from *Otis tarda*, London Zoo, p. 284 figs., **Yeh,** L.-S. (**8**).

Idiogeninae Fuhrm., key to genera, p. 334, **Dollfus,** R. P. (**15**).

Kowalewskius yoshidae **sp. nov.** in sm. int. of *Anas platyrhyncha domestica*, Japan, p. 16 figs., **Yamaguti,** S. (**1**).

Linstowia semoni (Zschokke) in *Thylacis obesulus*, Queensland, p. 337 figs., **Sandars,** D. F. (**2**).

Mayhewia **gen. nov.,** Hymenolepididae defined p. 32, type : *Hymenolepis corvi* Mayhew from *Corvus brachyrhynchos*, p. 32, *lamellaris* **sp. nov.** in *Lonchura maja*, *L. oryzivora*, Celebes. p. 31 figs., **Yamaguti,** S. (**2**).

Mesocestoides perlatus (Gze.) redescr. from *Terathopius ecaudatus*, N. Rhodesia, p. 541, **Bisseru,** B. (**1**).

Monorygma perfectum (v. Ben) (syn. *maquariae* Johnst.) in *Somniosus microcephalus*, Greenland, p. 18 figs., **Baer,** J. G. (**1**).

Multiceps smythi **sp. nov.** in dog, Eire, p. 16 figs., **Johri,** L. N. (**1**).

Nematotaenia dispar (Gze.) in *Rana* and *Bufo* spp., France and Morocco, p. 302 figs., *dispar* var. *algeriensis* **var. nov.** in *Bufo mauritanicus*, Algeria, p. 314 figs., *dispar* var. *chantalae* **var. nov.** in *B. m.*, Morocco, p. 316 figs., *tarentolae* López-Neyra in *Tarentola mauri-*

tanica, Monaco, France and Morocco, pp. 321, 328 figs., **Dollfus,** R. P. (**14**).

Octopetalum gutterae Baylis redescr. from *Guttera l. lividicollis*, p. 529 figs., *numida* (Fuhrm.) redescr. from *Numida m. mitrata* p. 531 fig., N. Rhodesia, **Bisseru,** B. (**1**).

Oochoristica crotalicola **sp. nov.** in sm. int. of *Crotalus viridis helleri* (type-host) and *C. cerastes laterorepens*, California, p. 365 figs., **Alexander,** C. G. & **Alexander,** E. P.—*O. rostellata* Zschokke var. *agamicola* **var. nov.** in *Agama bibroni*, p. 276 figs., *darensis* **sp. nov.** in *Uromastix acanthinurus*, p. 285 figs., *pseudocotylea* **sp. nov.** in *Eumeces algeriensis*, p. 293 figs., Morocco, **Dollfus,** R. P. (**17**).—*O. bivittata* Janicki in *Didelphis marsupialis insularis*, West Indies, p. 337, **Sandars,** D. F. (**2**).—*O. tandani* **sp. nov.** in int. of *Lycodon aulicus*, India, p. 377 figs., **Singh,** K. S. (**3**).

Ophryocotyle brasiliensis **sp. nov.** in *Hoploxypterus cayanus*, Brazil, p. 279 figs., **Mahon,** J. (**1**).

Otiditaenia conoideis (Bloch) in *Choriotis arabs*, Morocco, *Neotis cafra*, French Sudan, p. 340 figs., **Dollfus,** R. P. (**15**).

Paradilepis scolecina (Rud.) in *Phalacrocorax carbo* var. *novae-hollandiae*, p. 124 figs., *minima* (Goss) in *Microcarbo melanoleucus* and *Phalacrocorax sulcirostus*, p. 126 figs., sp. innom. in *Microcarbo melanoleucus*, p. 129 figs., S. Australia, **Clark,** H. G.

Paranoplocephala brevis Kirschenblatt redescr. from *Microtus arvalis*, *Clethrionomys glareolus*, Poland, p. 20 figs., **Furmaga,** S. (**1**).—*P. omphalodes* (Herm.) redescr. from *Microtus arvalis*, Poland, p. 122 figs., **Pojmańska,** T. (**1**).

Paricterotaenia porosa (Rud.) (syn. *gongyla* (Cohn)) redescr. from *Larus argentatus*, *L. ridibunchus* and *L. canus*, Italy, England and Denmark, p. 155 figs., **Bona,** F. V.

Paruterina rauschi **sp. nov.** in *Strix varia*, *Bubo virginianus* and *Aegolius acadica* (?), plerocercoids naturally in *Tamias striatus* and *Peromyscus leucopus*, experimentally in house mouse and *Tamiasciurus hudsonicus*, pp. 350, 357 figs., *candelabraria* (Gze.) in *Nyctea scandiaca*, *Bubo virginianus*, *Asio otus wilsonianus* and *Aegolius acadica*, plerocercoids experimentally in house mouse, *T. striatus*, *Peromyscus maniculatus* and *Clethrionomys gapperi*, pp. 351, 362 figs., N. America, **Freeman,** R. S.

Parvitaenia gorsakii **sp. nov.** in sm. int. of *Gorsakius goisagi*, Celebes, p. 8 figs., **Yamaguti,** S. (**2**).

Passerilepis arciuterus **sp. nov.** in *Ptilotis chrysotis*, Celebes, p. 36 figs., **Yamaguti,** S. (**2**).

Podicipitilepis **gen. nov.,** Hymenolepididae, defined p. 16, type : *laticauda* **sp. nov.** in sm. int. of *Podiceps ruficollis japonicus*, Japan, p. 14 figs., **Yamaguti,** S. (**1**).

Porogynia paronai (Moniez) from *Numida mitrata marunguensis*, N. Rhodesia, p. 538 fig., **Bisseru,** B. (**1**).

Progamotaenia bancrofti Johnst. in *Protemnodon bicolor*, Queensland, p. 337, *festiva* (Rud.) in *Macropus major*, Queensland, p. 338, **sp. nov. innom.** in *Setonix brachyurus*, W. Australia, p. 338, **Sandars,** D. F. (**2**).

Proterogynotaenia charadrii **sp. nov.** in sm. int. of *Charadrius alexandrinus dealbatus*, Japan, p. 18 figs., **Yamaguti,** S. (**1**).

Prototaenia obesa (Zschokke) in *Phascolarctos cinereus*, N.S.W. and Queensland, p. 338, **Sandars,** D. F. (**2**).

Pseudanthobothrium **gen. nov.,** Phyllobothriidae, defined p. 20, type : *hanseni* **sp. nov.** (syn. *Anthobothrium cornucopia* Heller *nec* v. Ben., *Echeneibothrium minimum* Rees *nec* v. Ben.) in *Raja radiata*, Greenland, p. 20 figs., **Baer,** J. G. (**1**).

Pseudodiorchis Skrj. & Mathevos. redefined, p. 465, *reynoldsi* (Jones) redescr. from *Blarina b. brevicauda*, U.S.A., p. 465 figs., **Oswald,** V. H.

Raillietina paucitesticulata (Fuhrm.) (syns. : *spiralis* Bacyznsk., *torquata* Megg., *quadritesticulata* Moghe, *flamminata* Megg., *fragilis* Megg., *sequens* Tub. & Masil., *torquata rajae* Tub. & Masil., *johrii* Ortlepp) p. 276, **Baer,** J. G. (**3**).—*R.* (*R.*) *pintneri* (Klaptocz) in *Guttera l. lividicollis*, *Numida m. mitrata*, *N. mitrata marunguensis*, p. 533, (*R.*) *woodlandi* Baylis in *N. m.*

marunguensis p. 533, N. Rhodesia, morphol. notes, **Bisseru,** B. (**1**).—*R.*, review of spp. from man, monkeys and rodents, (*R.*) *siriraji* **sp. nov.** in children, Thailand, p. 81, 87 figs., **Chandler,** A. C. & **Pradatsundarasar,** A.—*R.* (*R.*) *eupodotidis* **sp. nov.** in int. of *Eupodotis senegalensis*, French Sudan, p. 400 figs., **Dollfus,** R. P. (**15**).—*R.* (*R.*) *dattoi* **sp. nov.** in *Gallus gallus dom.*, India, p. 369, **Sinha,** P. K. (**1**).—*R.* (*R.*) *echinobothridia* (Megnin) in sm. int. of *Gallus gallus*, p. 17 figs., (*R.*) *paucitesticulata* (Fuhrm.) in *Geopelia striata*, p. 20 figs., (*P.*) *myzomelae* **sp. nov.** in *Myzomela r. rubrata* p. 22 figs., (*P.*) *macassarensis* **sp. nov.** in *Gallus gallus*, p. 26 figs., Celebes, **Yamaguti,** S. (**2**).

Schistocephalus solidus (Müller) in *Podiceps ruficollis japonicus*, Japan, p. 20 figs., **Yamaguti,** S. (**1**).

Sphenacanthus exiguus (Yoshida) in sm. int. of *Gallus gallus*, Celebes, p. 35, **Yamaguti,** S. (**2**).

Sphyronchotaenia uncinata Ransom redescr. from *Neotis capra jacksoni*, Uganda, p. 179 figs., **Baer,** J. G. (**2**).

Taenia megalorhyncha Krabbe transf. to *Dilepis* p. 30, *tetrabothrioides* Loennbg. transf. to *Arctotaenia* p. 36, **Baer,** J. G. (**1**).—*T. multiceps* Leske coenurus in woman, Mexico, p. 1 figs., **Caballero y C.,** E. (**1**).—*T.* (*Multiceps*) *endothoracicus* Kirschenblatt, larvae in pleural and abdominal cavities of *Meriones blackleri*, Iran, p. 281 figs., **Dollfus,** R. P. (**4**).

Tetrabothrius scoogi Nybelin redescr. from *Puffinus griseus*, Japan, p. 1 figs., **Yamaguti,** S. (**1**).

Thysanocephalidae **fam. nov.** for *Thysanocephalum* Linton, p. 105, **Meade-Thomas,** G. & **Riser,** N. W.

Thysanocephalum thysanocephalum (Linton) (syn. *rugosum* Chandler) in *Galeocerdo arcticus*, Woods Hole, systematic position, p. 98 figs., **Meade-Thomas,** G. & **Riser,** N. W.

Troglodytilepis **gen. nov.,** Hymenolepididae, defined p. 13, type : *troglodytis* **sp. nov.** in sm. int. of *Troglodytes troglodytes fumigatus*, Japan, p. 11 figs., **Yamaguti,** S. (**1**).

Vigisolepis barbascolex Spassky in *Sorex minutus*, Poland, p. 140 figs., **Pojmańska,** T. (**1**).

NEMERTINEA

Arctonemertes **gen. nov.,** Amphiporidae, type : *thori* **sp. nov.,** Iceland, p. 143 figs., **Friedrich,** H. (**2**).

Amphiphorus (*Intestinonemertes*) *arcticus* Punnett, some redescr., Arctic, p. 130, (*I.*) *appendiculatus* **sp. nov.,** Iceland, p. 133 fig., (*I.*) *punnetti* **sp. nov.,** Iceland, p. 134 figs., (*I.*) *septentrionalis* **sp. nov.,** Iceland, p. 138 figs., (*I.*) *islandicus* **sp. nov.,** Iceland, p. 140 figs., **Friedrich,** H. (**2**).

Armaueriidae Brinkmann, key to spp., p. 84, **Korotkevitsch,** V. S.

Callinera Bergdl. defined, p. 552, *bürgeri* Bergdl., Sweden, p. 552, **Hylbom,** R.

Carinina Hubr. defined, key to spp in North Sea and Baltic, p. 541, morphological notes, p. 563, *arenaria* **sp. nov.** p. 542 figs., *coei* **sp. nov.** p. 543 figs., *atavia* (Bergend.) p. 545, Sweden, **Hylbom,** R.

Carinoma sp. innom., Chile, p. 3, **Friedrich,** H. (**1**).

Cephalothrix Örst. defined, key to spp., p. 553, *rufifrons* (Johnst.) p. 553 figs., *linearis* (Rathke) p. 554, *arenaria* **sp. nov.,** p. 555 figs., Sweden, **Hylbom,** R.

Cerebratulus tageae **sp. nov.,** Brazil, p. 252 figs., **Corrêa,** D. D.

Cratenemertes danae **sp. nov.,** Arctic, p. 150, **Friedrich,** H. (**2**).

Dananemertes **gen. nov.,** Amphiporidae, type : *saemundssoni* **sp. nov.,** Iceland, p. 147 fig., **Friedrich,** H. (**2**).

Dinonemertes Laidlaw, key to spp., p. 69, redefined p. 72, *alberti* (Joubin) redescr., N.W. Pacific, p. 73 figs., **Korotkevitsch,** V. S.

Emplectonema bocki **sp. nov.** epizoic on the coelenterate *Funiculina quadrangularis*, Sweden, p. 59 figs., **Brunberg,** L.

Hubrechtella Bergdl. defined, p. 557, *dubia* Bergdl., Sweden, p. 557 figs., **Hylbom,** R.

Itanemertes **gen. nov.,** Monostilifera, defined p. 255, type : *nonatoi* **sp. nov.,** Brazil, p. 255 figs., **Corrêa,** D. D.

Mesarmaueria **gen. nov.,** Armaueriidae, p. 84, defined p. 86, [type-species not designated], to incl. *crassa* p. 87 figs., *laticeps* p. 87 figs., *acoeca* p. 91 figs., *tenuicauda* p. 94 figs., *angusta* p. 98 figs., *pellucida* p. 100 figs., *caudata* p. 103 figs., *divaricata* p. 105 figs., **spp. nov.,** N.W. Pacific, **Korotkevitsch,** V. S.

Nectonemertes Verrill, key to spp., p. 70, redefined, p. 75, *burgeri* **sp. nom. nov.** pro *Drepanophorus pelagicus* Bürger (1912), p. 71, *major* **sp. nov.,** N.W. Pacific, pp. 72, 75 figs., *pelagica* Cravens & Heath redescr. p. 81 fig., *japonica* Foshay redescr. p. 81 fig., *acanthocephala* **sp. nov.,** N.W. Pacific, pp. 72, 82, figs., **Korotkevitsch,** V. S.

Pelagonemertes Moseley synonymy, redefined, key to spp., p. 108, *brinkmanni* Coe redescr. p. 114 figs., *oviporus* **sp. nov.** p. 115 figs., *robusta* **sp. nov.** p. 119 figs., *laticauda* **sp. nov.** p. 121 figs., *excisa* **sp. nov.** p. 124 figs., N.W. Pacific, **Korotkevitsch,** V. S.

Planktonemertes Woodworth, synonymy, key to spp., p. 64, *coei* **sp. nom. nov.** pro *Plotonemertes aurantiaca* of Coe (1936) *nec* Coe (1926) p. 65, *bürgeri* **sp. nom. nov.** pro *P. agassizii* of Bürger (1912) *nec* Woodworth (1899), p. 69, **Korotkevitsch,** V. S.

Proarmaueria pellucida Coe redescr. from N.W. Pacific, p. 85 figs., **Korotkevitsch,** V. S.

Procarinina Bergdl. a syn. of *Carinina*, p. 541, **Hylbom,** R.

Tagonemertes **gen. nov.,** Monostilifera, defined p. 257, type : *tuba* **sp. nov.,** Brazil, p. 258 figs., **Corrêa,** D. D.

Tetrastemma Ehrenb., morphological note, p. 259, *piolinum* p. 260 figs., *nanum* p. 262 figs., *turdum* p. 264 figs., *basinum* p. 265 figs., *cincum* p. 267 figs., **spp. nov.,** Brazil, **Corrêa,** D. D.

Tubulanus Reneir defined, key to spp., *annulatus* (Montagu) p. 546 figs., morphology, p. 571, *superbus* (Kölliker) p. 548, *polymorphus* Renier p. 548, *theeli* (Bergdl.) p. 549 figs., Sweden, **Hylbom,** R.

MESOZOA

Conocyema deca **sp. nov.** in *Octopus apollyon*, Washington, U.S.A., p. 358 figs., **McConnaughey,** B. H.

Dicyemennea abreida **sp. nov.** in *Octopus apollyon*, Washington and Oregon, p. 361 figs., **McConnaughey,** B. H.

NEMATHELMINTHES

SUBJECT INDEX

GENERAL

Monograph : **Text-book.**—Oxyuroids from Arthropoda, **Basir,** M. A.; Acanthocephala, **Petrochenko,** V. I.

Reviews : **Addresses.**—Parasitology in the Arctic, **Cameron,** T. W. M. ; Interrelations between nutrition and infectious disease, **Chandler,** A. C. ; Plant-parasitic nematodes, **Goffart,** H. (**4**) ; Review of fish parasitology in Poland, **Grabda,** E. ; Control of human helminthiasis in Poland, **Janicki,** M. ; First Congress of Polish Parasitologists, **Kozar,** Z. (**1**) ; Problems of immunity in parasitic diseases, **Kozar,** Z. (**2**) ; Survey of medical parasitological research in Poland during 1954–56, **Kozar,** Z. (**3**) ; Bionomic survey of trichinellosis, **Matoff,** K. (**2**) ; Medical parasitology in Poland, **Moryzycki,** J. ; Extension of host-range of parasitic nematodes, **Osche,** G. ; Nematodes in mushroom culture, **Paesler,** F. (**2**) ; Symposium on plant-parasitic nematodes, **Peters,** B. G. ; Survey of general parasitological research in Poland during 1954–56, **Poluszyński,** G. ; Review of nematodes from bark-beetles, **Rühm,** W. (**1**) ; Problems in modern helminthology, **Skrjabin,** K. I. ; Parasitological problems in post-war Poland, **Stefanski,** W. (**1**) ; Parasitological research in Poland, **Stefanski,** W. (**2**) ; Symposium on helminth infections of man, **Stoll,** N. R. (**2**) ; Ecological problems in parasitology, **Wisniewski,** W. L. (**1**) ; Veterinary parasitology in Poland, **Zarnowski,** E. (**1**) ; Survey of veterinary parasitological research in Poland during 1954–56, **Zarnowski,** E. (**2**).

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Nomenclature : Classification.—Review of the genus *Trichodorus*, **Allen,** M. W. (**1**) ; Systematic position of the genus *Acantholaimus*, **Allgén,** C. A. (**2**) ; Systematics of the genus, *Aproctella*, **Anderson,** R. C. (**2**) ; Systematic importance of body-size in free-living nematodes, **Andrassy,** I. (**1**) ; Review of the genus *Chronogaster*, **Andrássy,** I. (**3**) ; Revision of the subfamily Cucullaninae, **Campana-Rouget,** Y. ; Systematics of the suborder Ascaridina, **Chabaud,** A. G. (**2**) ; Systematic review of the genera *Quilonia* and *Murshidia*, **Chabaud,** A. G. (**3**) ; Status of the genus *Pharyngosetaria*, **Chabaud,** A. G. (**5**) ; Systematic review of the genus *Falcaustra*, **Chabaud,** A. G. & **Golvan,** Y. J. (**1**) ; Differential key to genera of the subfamily Tylencholaiminae, **Chitwood,** B. G. (**1**) ; Differential key to species of the genus *Criconema*, **Chitwood,** B. G. (**2**) ; Review of the family Quadrigyridae, **Diaz-Ungria,** C. & **Rodrigo,** A. G. ; Identity of *Protostrongylus frosti*, **Dikmans,** G. ; Validity of the name *Seurocyrnea*, **Dollfus,** R. P. (**12**) ; Validity of the name *Centorhynchus*, **Dollfus,** R. P. (**16**) ; Classification of the suborder Spirurina, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**) ; The genus *Centrorhynchus* Lühe invalid, **Dollfus,** R. P. & **Golvan,** Y. J. ; Systematic note on the genus *Pomphorhynchus*, **Engelbrecht,** H. ; Nomenclature of cereal root eelworm, **Franklin,** M. T. (**1**) ; Review of the genus *Meloidogyne*, **Franklin,** M. T. (**3**) ; Synonymy of *Rictularia affinis*, **Gibbs,** H. C. (**2**) ; Systematics of the genera *Rotylenchus* and *Helicotylenchus*, **Golden,** M. A. (**1**) ; Systematic note on *Oligacanthorhynchus*, **Golvan,** Y. J. (**2**) ; Systematic status of *Ascaris heteropterum*, **Hartwich,** G. (**1**) ; Systematics of the Ascaridoidea, **Hartwich,** G. (**2**) ; Systematic importance of head-structure in the family Heterakidae, **Inglis,** W. G. ; Systematic position of *Echinorhynchus impudicus*, **Kritscher,** E. ; What is *Aphelenchus neglectus* Rensch ? **Loof,** P. A. A. ; Review of the superfamily Filaroidea, **Lopez-Neyra,** C. R. ; Systematic note on the genus *Dracunculus*, **Mirza,** M. B. ; Systematics of the Strongyloidea, **Popova,** T. I. ; Review of the genus *Citellina*, **Read,** C. P. (**1**) ; Systematic position of the genus *Chambersiella*, **Sanwal,** K. C. (**2**) ; Review of the genus *Spiculopteragia*, **Sarwar,** M. M. (**1**) ; Classification of the family Trichostrongylidae, **Sarwar,** M. M. (**2**) ; Taxonomy of biological strains of *Ditylenchus*, **Steiner,** G. (**2**) ; Reviews of the genera *Thelandros* and *Parapharyngodon*, **Teixeira de Freitas,** J. F. (**4**) ; Specific differentiation of infective *Nematodirus* larvae, **Thomas,** R. J. ; Nomenclature of *Oxyuris socialis*, **Travassos,** L. & **Kloss,** G. R. (**3**) ; Systematics of the order Tylenchida, **Wachek,** F. ; Systematic position of *Filaria helicina*, **Wehr,** E. E. & **Hwang,** J. C. (**2**) ; Nomenclatural changes for Axonolaimoid and Monhysteroid nematodes, **Wieser,** W. (**1**) ; Classification of *Dipetalonema* and related genera, **Yeh,** L. S. (**4**).

Technique.—Collection and preservation of helminths, **Anon** ; Methods for demonstrating helminth eggs in faeces, **Biagi F.,** E. & **Portilla,** J. ; Digestive method for recovery of cattle nematodes, **Ciordia,** H. et al. ; Method for obtaining radio-active filariid larvae, **Dissanaike,** A. S., et al. [2] ; Factors required for axenic cultivation of *Caenorhabditis briggsae*, **Dougherty,** E. C. & **Hansen,** E. L. ; Method for determining infectivity of *Heterodera rostochiensis*, **Dropkin,** V. H. ; Vacuum distillation of potato-root diffusate, **Fenwick,** D. W. (**2**) ; Machine for separating helminth eggs from faeces, **Hill,** C. H. & **Zimmerman,** R. E. ; Culture of *Dorylaimus ettersbergensis*, **Hollis,** J. P. & **Fielding,** M. J. ; Method for distinguishing dead and living nematodes, **Homeyer,** B. ; Trichrome stain method for helminths, **Horen,** W. P. ; M.I.F.C. method for detecting nematode eggs in faeces, **Jagewardene,** L. G. ; Axenic cultivation of *Nematospiroides dubius*, **Jones,** M. F. & **Weinstein,** P. P. ; Method for counting tricho-

strongyles of the small intestine, **McGee,** G. et al. ; Spring clips in mounting helminths, **Meyer,** M. C. ; Culture-method for study of nematode-predators, **Murphy,** P. W. & **Doncaster,** C. C. ; Axenic cultivation of rhabditid nematodes, **Nicholas,** W. L. & **McEntegart,** M. G. ; Techniques for study of migratory root-nematodes, **Pitcher,** R. S. ; Simplified formol-ether method for concentrating eggs in faeces, **Ridley,** D. S. & **Hawgood,** B. C. ; Modification of Baermann technique, **Rohrbacher,** G. H. (**1**) ; Method for detecting *Trichinella* antibodies, **Sadun,** E. H. & **Allain,** D. S. ; Method for counting *Ascaris* eggs, **Sadun,** E. H. et al. ; New methods for study of living nematode larvae, **Schacher,** J. F. ; Axenic cultivation of *Neoaplectana glaseri*, **Stoll,** N. R. (**1**) ; Method for demonstrating nematodes in citrus roots, **Tarjan,** A. C. & **Ford,** H. W. ; Modification of the Baermann funnel technique, **Watson,** J. M. & **Al-Hafidh,** R. ; Method for recovering live microfilariae from blood, **Webber,** W. A. F. ; Axenic cultivation of *Strongyloides* spp. from rhesus monkey, **Weinstein,** P. P. & **Jones,** M. F. (**1**) ; *In vitro* cultivation of *Nippostrongylus muris*, **Weinstein,** P. P. & **Jones,** M. F. (**2**) ; Method for staining and counting *Syphacia obvelata*, **Whitlock,** H. V. ; Comparison of DCF and McMaster helminth egg-counting techniques, **Wilson,** G. I.

Obituary.—†C. Wesenberg-Lund, **Berg,** K. ; †J. Rodhain, **Dubois,** A. ; †M. J. Triffitt, **P[eters],** B. G. ; †E. B. Cram, **Schwartz,** B. ; †J. W. Scott, **Scott,** J. P.

STRUCTURE

General.—Morphological variation in *Heterakis gallinae*, **Akhmedova,** S. I. ; Morphology of the genus *Trichodorus*, **Allen,** M. W. (**1**) ; Morphology of the Strongyloidea, **Popova,** T. I. ; Anatomy of *Radopholus gracilis*, **Sanwal,** K. C. (**1**) ; Morphological variation in the genus *Pratylenchus*, **Taylor,** D. P. & **Jenkins,** W. R.

Larvae.—Morphology of *Wuchereria bancrofti* larvae in urine, **Golvan,** Y. J. & **Larivière,** M. ; Larval morphology of nematodes parasitic in insects, **Rühm,** W. (**2**) ; Larval morphology of *Toxocara canis*, **Schacher,** J. F.

Head.—Variation in the dentition of *Syngamus trachea*, **Chabaud,** A. G. & **Rougeaux,** M. ; Cephalic structure in the family Heterakidae, **Inglis,** W. G. ; Sex dimorphism of head in *Hoplolaimus coronatus*, **Krueger,** H. J. & **Linford,** M. B.

Alimentary system.—Functional anus in *Tylenchulus*, **Luc,** M. (**2**).

Cytology : Histology.—Cuticle of *Ascaris lumbricoides*, **Bird,** A. F. & **Deutsch,** K. ; Cytology of *Strongyloides papillosus*, **Chang,** P. C. H. & **Graham,** G. L. ; Cuticular structure in *Ascaris lumbricoides*, **Harris,** J. E. & **Crofton,** H. D. ; Chromosomes of *Acanthocephalus ranae*, **John,** B. (**1**) ; Chromosomes of *Oswaldocruzia filiformis*, **John,** B. (**2**) ; Chromosomes in *Heterodera schachtii*, **Mulvey,** R. H. (**2**) ; Histology of *Rhabditis strongyloides*, **Peebles,** C. R. ; Chromosomes in *Heterodera rostochiensis*, **Riley,** R. & **Chapman,** V. ; Chromosomes in *Stephanurus dentatus*, **Tromba,** F. G. & **Steele,** A. E.

PHYSIOLOGY

Constitution : Metabolism.—Chemical composition of cuticle in *Ascaris lumbricoides*, **Bird,** A. F. ; Intermediary metabolism in helminths, **Brand,** T. von ; Chemistry and physiology of *Ascaris equorum*, **Fairbairn,** D. ; Trehalose and glycogen in *Ascaris lumbricoides*, **Fairbairn,** D. & **Passey,** R. F. ; Paper chromatography of *Nipponstrongylus* larvae, **Froedman,** F. & **Kagan,** I. G. ; Glycolysis in *Trichinella* larvae, **Goldberg,** E. (**1**) ; Metabolism in *Trichinella spiralis*, **Goldberg,** E. (**2**) ; Protease inhibitors in *Ascaris lumbricoides*, **Green,** N. M. ; Chemistry of egg-shell of *Ascaris lumbricoides*, **Guevara Pozo,** D. ; Physiology of pseudocoel in *Ascaris lumbricoides*, **Harris,** J. E. & **Crofton,** H. D. ; Nitrogenous excretion of *Trichinella spiralis* larvae, **Haskins,** W. T. & **Weinstein,** P. P. (**1**) ; Amino acids in *Trichinella spiralis* larvae, **Haskins,** W. T. & **Weinstein,** P. P. (**2**) ; Aliphatic amines in *Ascaris lumbricoides* and *Trichinella spiralis* larvae, **Haskins,** W. T. & **Weinstein,**

P. P. (**3**) ; Phosphate esters in *Trichuris vulpis*, *Ascaris lumbricoides* and *Strongyloides ratti*, **Jones,** C. A. et al. ; Analysis of *Ascaris* polysaccharid antigens, **Kagan,** I. G. & **Jeska,** E. L. ; Carbohydrate metabolism in *Moniliformis dubius*, **Laurie,** J. S. ; Nutrition in gall-nematodes, **Müge,** S. G. ; Anaerobiosis in *Ascaris* eggs after radiation, **Pahl,** G. & **Bachofer,** C. S. ; Metabolism in ovaries of *Ascaris lumbricoides*, **Pollak,** J. K. (**1**) ; Utilization of ammonium ions by *Ascaris lumbricoides*, **Pollak,** J. K. (**2**) ; Chemical differences in ovaries of *Ascaris lumbricoides*, **Pollak,** J. K. (**3**) ; Cuticle of nematodes, **Rizzoli,** C. ; Respiratoy metabolism in *Nippostrongylus muris* larvae, **Schwabe,** C. W. (**2**) ; Effects of rat sera on oxygen uptake in *Nippostrongylus* larvae, **Schwabe,** C. W. (**3**).

Environmental effects and responses.—Influence of host-environment on *Heterakis gallinae*, **Akhmedova,** S. I. ; Effects of irradiation on *Ascaris* eggs. **Bachofer,** C. S. ; Survival of *Meloidogyne* on strawberry-roots in Massachusetts, **Bailey,** J. S. ; Effects of temperature and humidity on development in *Haemonchus contortus*, **Berberian,** J. F. & **Mizelle,** J. D. ; Effect of radiation on infective larvae of *Trichostrongylus axei*, **Ciordia,** H. ; Effect of anaesthetics on *Loa* microfilariae, **Duke,** B. O. L. & **Hawking,** F. ; Effect of ethylene dibromide on hatching of *Heterodera rostochiensis*, **Fenwick,** D. W. (**1**) ; Survival of *Ancyclostoma caninum* in Thiry fistulae of dogs, **Garoian,** G. ; Effect of brine on *Trichinella* larvae in pig-meat, **Gaugusch,** Z. ; Factors influencing *Heterodera rostochiensis* populations, **Goffart,** H. (**1**) ; Reactions of *Trichinella spiralis* in fistulas free of exogenous food and digestive enzymes, **Goodchild,** C. G. ; Influence of humidity and temperature on ascariasis in Slovakian children, **Hoza,** E. ; Influence of host-environment on helminths of game-birds, **Kasimov,** G. B. (**1**) ; Effect of soil moisture on survival of root-knot nematodes, **Peacock,** F. C. (**2**) ; Effect of green food on *Trichostrongylus axei*, **Rohrbacher,** G. H. (**2**) ; Effects of antibiotics on *Rhabditis briggsae*, **Tiner,** J. D. & **Rangaswami,** G. ; Effects of radiation on development of *Heterodera* larvae, **Weischer,** B. (**1**) ; Effect on *Meloidogyne hapla* of excised roots of MOPA-treated tomato plants, **Wieser,** W. (**2**) ; Effects of irradiation on nematodes in mushroom beds, **Wood,** F. C. & **Goodey,** J. B.

Growth.—Effect of "acriflavine" on growth in *Caenorhabditis elegans*, **Dougherty,** E. C. & **Nigon,** V. ; Growth of *Ascaris lumbricoides* in baby pigs, **Kelley,** G. W. et al.

REPRODUCTION AND DEVELOPMENT

Reproduction.—Origin and significance of the rachis in nematodes, **Wessing,** A. ; Reproduction in isolated females of *Heterodera rostochiensis*, **Williams,** T. D.

Ovogenesis.—In *Ascaris equorum*, **Makarov,** P. V.

Parthenogenesis.—In *Heterodera rostochiensis*, **Ellenby,** C. (**2**).

Development.—Development of parasitic stages of *Trichostrongylus axei* and *T. colubriformis*, **Douvres,** F. W. ; Development of *Rhabditis strongyloides* larvae, **Frieshammer,** J. ; Developmental stages of *Rotylenchus buxophilus*, **Golden,** A. M. (**1**) ; Development of *Polymorphus minutus* in *Gammarus*, **Hynes,** H. N. N. & **Nicholas,** W. L. ; Development of *Onchocerca volvulus* in *Simulium damnosum*, **Muirhead-Thomson,** R. C. ; Post-embryonal development of *Heterakis gallinarum*, **Peng,** O. H. ; Larval development of *Muellerius capillaris*, **Rose,** J. H. (**2**) ; *In vitro* development of *Nippostrongylus muris*, **Schwabe,** C. W. (**1**) ; Development of *Toxocara canis*, **Sprent,** J. F. A. (**2**) ; Development of *Wuchereria malayi* in *Mansonia longipalpis*, **Wharton,** R. H. (**1**) ; Development of *Trichinella spiralis* in rats and mice, **Wu,** L. Y. & **Kingscote,** A. A.

Life-history.—Life-history of *Subulura suctoria* in Egypt, **Abdou,** A. H. & **Selim,** M. K. ; Life-histories of dipetalonematid nematodes, **Anderson,** R. C. (**3**) ; Life-histories of *Diplotriaenoides* and *Diplotriaena*, **Anderson,** R. C. (**1**) ; Life-history note on *Thelazia californiensis*, **Burnett,** H. S.

et al. ; Life-history note on *Strongyloides papillosus*, **Chang,** P. C. H. & **Graham,** G. L. ; Life-history of *Macracanthorhynchus hirudinaceus* in Russia, **Chebotarev,** R. S. ; Life-history of *Pomphorhynchus laevis*, **Engelbrecht,** H. ; Life-history of *Parabronema skrjabini*, **Ivashkin,** V. M. (**2**) ; Life-history of *Epomidiostomum anatinum*, **Kurochkin,** Y. V. ; Life-history of *Heterodera rostochiensis*, **Lapage,** G. ; Life-history of *Skrjabinoptera phrynosoma*, **Lee,** S. H. ; Life-history note on *Porrocaecum ensicaudatum*, **Levin,** N. L. (**2**) ; Experimental life-history of *Aelurostrongylus abstrusus* in Queensland, **Mackerras,** M. J. (**3**) ; Life-history note on *Polymorphus minutus*, **Nicholas,** W. L. & **Hynes,** H. B. N. ; Life-history of *Toxocara canis*, **Schacher,** J. F. ; Life-history note on *Skrjabinema ovis*, **Schad,** G. A. ; Life-history of *Physaloptera praeputialis*, **Zago Filho,** H. (**2**).

Bionomics of ova and larvae.—Invasion of eelworm larvae into beet rootlets, **Apel,** A. & **Kämpfe,** L. (**2**) ; Migration of *Ascaris laevis* in experimental hosts, **Babero,** B. B. (**2**) ; Calcification of *Trichinella* cysts, **Berezantsev,** Y. A. ; Factors inhibiting development of *Ascaris lumbricoides* eggs, **Borchert,** A. ; Production of radioactive *Wuchereria* larvae in mosquitoes, **Dissanaike,** A. S. et al. [**1**] ; Seasonal incidence of strongyle oviposition in horses, **Dobrowolska,** D. & **Grabda,** E. ; Effects of various stimuli on periodicity of *Wuchereria* larvae, **Edeson,** J. F. B. et al. ; Hardening process of cyst-wall of potato-root eelworm, **Ellenby,** C. (**1**) ; *Heterodera rostochiensis* hatching factor, **Ellenby,** C. & **Gilbert,** A. B. ; Electron microscopy of cyst-wall of *Heterodera rostochiensis*, **Ferris,** V. R. & **Siegel,** B. M. ; Seasonal variation of strongylid eggs in Brazilian horses, **Freitas,** M. G. et al. ; Periodicity of microfilariae, **Hawking,** F. ; Hatching response of *Heterodera major* to root diffusates, **Hesling,** J. J. ; Survival of *Trichuris suis* eggs in pig-pens, **Hill,** C. H. (**1**) ; Distribution of *Trichinella spiralis* larvae in organs of pigs, **Hill,** C. H. (**2**) ; Migration of *Ascaris lumbricoides* larvae in baby pigs, **Kelley,** G. W. et al. ; Bionomics of *Onchocerca volvulus* larvae in *Simulium*, **Kershaw,** W. E. ; Emergence of *Loa loa* from *Chrysops silacea*, **Lavoipierre,** M. M. J. ; Skin-penetration by *Strongyloides ratti* larvae, **Lewert,** R. M. & **Lee,** C. L. (**2**) ; Re-infection with adult and larval *Trichinella* in rats, **Matoff,** K. (**1**) ; Periodic migration of *Wuchereria* and *Loa* microfilariae in man, **McFadzean,** J. A. & **Hawking,** F. ; Bionomics of *Ascaridia galli* larvae in chicken, **Moran,** J. F. & **Mizelle,** J. D. ; Emergence of larvae from sealed *Heterodera rostochiensis* cysts, **Onions,** T. G. ; Transmission of *Stephanofilaria assamensis* among cattle in Pakistan, **Rahman,** M. H. ; Exsheathment of larvae of ovine trichostrongyles, **Rogers,** W. P. & **Sommerville,** R. I. ; Bionomics of *Muellerius capillaris* larvae, **Rose,** J. H. (**3**) ; Differentiation of cysts of *Heterodera* spp., **Scherney,** F. ; Differential fluorescence of structures in *Litomosoides carinii* embryo, **Smiles,** J. & **Taylor,** A. E. R. ; Exsheathing mechanism in nematode larvae, **Sommerville,** R. I. ; Seasonal occurrence of lungworm larvae in Austria, **Supperer,** R. ; Periodicity of *Wuchereria malayi* larvae in Malaya, **Turner,** L. H. & **Edeson,** J. F. B. ; Stimulation of hatching of *Heterodera schachti* cysts, **Wallace,** H. R. ; Influence amino-acridines on hatching of *Heterodera schachtii* eggs, **Winner,** C. ; Agglutination and thigmotaxis of *Wuchereria bancrofti* microfilariae, **Yoeli,** M. (**5**) ; Agglutination of *Wuchereria bancrofti* larvae, **Yoeli,** M. (**3**).

EVOLUTION AND GENETICS

Evolution : Phylogeny.—Evolution of life-histories of dipetalonematid nematodes, **Anderson,** R. C. (**3**) ; Phylogeny of the Strongyloidea, **Popova,** T. I. ; Evolution of helminths in microtine rodents, **Rausch,** R. ; Parasito-phylogenetic rules, **Stammer,** H. J. ; Evolution of phytoparasitism in tylenchoid and dorylaimoid nematodes, **Steiner,** G. (**1**).

Genetics.—Races of *Ditylenchus dipsaci* on bulbs, **Southey,** M. A. (**2**).

Host-parasite relations.—Host-parasite relationship of *Heterodera schachtii*, **Apel,** A. & **Kämpfe,** L.

(**1**) ; Host-specificity of nematodes of vertebrates, **Chabaud,** A. G. (**1**) ; Specificity of Acanthocephala in Czechoslovakian fishes, **Dyk,** V. ; Host-parasite relationships of *Rotylenchus buxophilus*, **Golden,** A. M. (**1**) ; Host-specificity in the Acanthocephala, **Golvan,** Y. J. (**4**) ; Host-specificity of *Nippostrongylus*, **Haley,** A. J. ; Evolutionary aspects of host-specificity, **Mayr,** E. ; Specificity of plant nematodes, **Paramonov,** A. A. ; Theory of "parasitocoenosis", **Pavlovsky,** E. ; Host-specificity of helminths of insectivores in Czechoslovakia, **Prokopic,** J. ; Alternative approach to study of host-parasite specificity, **Rogers,** W. P. ; Host-parasite relationships, **Shultz,** R. S. & **Dartyan,** E. A.

ETHOLOGY

General.—Relationships between free-living Norwegian and tropical marine nematodes, **Allgén,** C. A. (**1**) ; Amphiboreal and bipolar distribution of helminths of marine mammals, **Delyamure,** S. L. ; Protozoa parasitic in helminths, **Dissanaike,** A. S. ; Bionomics of *Heterodera rostochiensis* in tomato and black nightshade, **Doncaster,** C. C. ; Dynamics of endoparasites of High Tatra fishes, **Dyk,** V. (**1**) ; Biology of *Toxocara canis*, **Ehrenford,** F. A. ; Ecological notes on free-living nematodes in the Spanish sierras, **Gadea,** E. (**2**) ; Ecology of sand-nematodes on Brazilian coast, **Gerlach,** S. A. (**1**) ; Populations of *Heterodera major* on cereals, **Hesling,** J. J. ; Soil populations of *Heterodera schachtii*, **Jones,** F. G. W. (**2**) ; Bionomics of *Setaria marshalli* in sheep of Russian Far East, **Kadenatzii,** A. N. ; Bionomics of *Trichostrongylus axei* in rabbits, **Leland,** S. E. & **Drudge,** J. H. ; Bionomics of bark-beetle nematodes, **Rühm,** W. (**1**) ; Feeding habits of *Telorhabditis longispina*, **Schuurmans Stekhoven,** J. H. ; Biology and ecology of stem-eelworms, **Seinhorst,** J. W. ; Ecology of nematodes in bottom-fauna of Lake Texoma, **Sublette,** J. E. ; Bionomics of tylenchid nematodes, **Wachek,** F.

Immunobiology : Serology.—Appearance of precipitates on *Litomosoides carini* larvae in rats sera, **Briggs,** N. T. ; Production of immunity in mice to *Trichinella*, **Chipman,** P. B. ; Susceptibility and resistance in red clover to *Ditylenchus dipsaci*, **Dijkstra,** J. ; Immunology of *Ascaris* in rabbit and man, **Fernández, Amela,** T. E. ; Hybrids of *Solanum* resistant to *Heterodera rostochiensis*, **Goffart,** H. (**2**) ; Resistance of oats to *Ditylenchus dipsaci*, **Griffiths,** D. J. et al. ; Demonstration of immune precipitates on *Trichinella spiralis*, **Jackson,** G. J. & **Lewert,** R. M. ; Resistance-breaking biotypes of *Heterodera rostochiensis*, **Jones,** F. G. W. (**1**) ; Immunology of ascarid antigens, **Kagan,** I. G. ; Immunity to *Litomosoides* in cotton-rat, **Macdonald,** E. M. & **Scott,** J. A. ; Resistance to *Haemonchus* in gastric pouch in sheep, **Madsen,** H. & **Whitlock,** J. H. ; Serology of filariasis in West Africa, **Minning,** W. & **McFadzean,** J. D. ; Susceptibilities of plants to *Heterodera schachtii* in Ontario, **Mulvey,** R. H. (**3**) ; Susceptibility to *Meloidogyne* in Ghana, **Peacock,** F. C. (**1**) ; Serology in filariasis, **Ridley,** D. S. ; Metabolic and somatic antigens in response of rabbits to infections with *Trichinella spiralis*, **Sadun,** E. H. & **Norman,** L. ; Serology of visceral *larva migrans*, **Sadun,** E. H. et al. (**1**) ; Serology of *Toxocara canis*, **Sadun,** E. H. et al. (**2**) ; Effect of irradiated *Trichinella* larvae on antibody production in rabbit, **Sadun,** E. H. et al. ; Complement-fixation reaction in *Loa* and *Acanthocheilonema* infections, **Schofield,** F. D. ; Susceptiblity of rice-rats and cotton-rats to filariids, **Scott,** J. A. et al. (**2**) ; Resistance in *Sigmodon hispidus* subspp. to Florida strain of *Litomosoides carinii*, **Scott,** J. A., **Macdonald,** E. M. & **Olson,** L. J. ; Acquired immunity in chickens to *Syngamus*, **Shikhobalova,** N. P. (**1**) ; Immunization against *Ascaris lumbricoides* in guinea-pig, **Soulsby,** E. J. L. (**1**) ; Serological response in sneep to gastro-intestinal nematodes, **Soulsby,** E. J. L. (**2**) ; Antigenic analysis of *Ascaris* tissues, **Soulsby,** E. J. L. (**4**) ; Serological-allergic methods in helminthiasis, **Trawiński,** A. ; Immunology of *Strongyloides papillosus* in sheep, **Turner,** J. H. ; Arrested development in cattle-nematodes, **Veg-**

ors, H. H. ; Serology of *Dictyocaulus viviparus* in cattle, **Weber,** T. B. ; Inherited resistance to trichostrongyles in sheep, **Whitlock,** J. H. & **Madsen,** H. ; Variable susceptibility of lambs and kids to gastrointestinal nematodes, **Wilson,** G. I. & **Kates,** K. C.

Epidemiology.—*Enterobius vermicularis* on Indian reservations in U.S.A., **Brooke,** M. M. & **Melvin,** D. M. ; Human helminthiasis, **Brown,** H. W. ; Helminthiasis of natives on shores of Lake Lindu, Central Celebes, **Buck,** A. A. & **Uhrmann,** G. ; Epidemiology of onchocerciasis in Northern Nigeria, **Budden,** F. H. ; Intestinal helminthiasis among children in Rome, **Capone-Braga,** P. ; Seasonal incidence of nematodes in sheep on lowland farms, **Crofton,** H. D. ; Experimental transmission of *Loa* from man to monkeys, **Duke,** B. O. L. (**1**) ; Transmission of *Wuchereria malayi* from man to cat, **Edeson,** J. F. B. & **Wharton,** R. H. ; Human onchocerciasis in W. Africa, **Edwards,** E. E. ; Onchocerciasis in the Yemen, **Fawdry,** A. L. ; Incidence of *Wuchereria bamcrofti* larvae in *Anopheles gambiae* in coastal Liberia, **Fox,** R. M Trichinosis in Limerick, **Furnell,** M. J. G. & **Kershaw,** W. E. ; Epidemiology of filariasis in Malaya and Travancore, **Galliard,** H. (**1**) ; Cysticercosis in pigs, Poland, **Hay,** J. (**2**) ; *Ancylostoma malayanum* in Indonesia, **Holleman-Haye,** A. ; Foci of *Trichinella* epidemic in Slovakia, **Hovorka,** J. ; Incidence of ascarids in cats, Scotland, **Hutchinson,** W. M. ; Human onchocerciasis in Uganda, **Hulton,** P. W. ; Hamsters as disseminators of *Dictyocaulus filaria* among sheep, **Iksanov,** K. I. (**2**) ; Survey of filariasis in American Samoa, **Jachowski,** L. A. ; Two French cases of *Loa loa* infection, **Jullien,** A. et al. ; Setariasis of sheep in Russian Far East, **Kadenarzii,** A. N. ; Incidence of helminth infestation among gamebirds of Azerbaidzhan, Russia, **Kasimov,** G. B. (**2**) ; *Trichinella* not found in small mammals of the Bialowieza Forest, Poland, **Kozar,** Z. & **Warda,** L.; Incidence of gastrointestinal nematodes in Illinois cattle, **Levine,** N. D. & **Aves,** I. J. ; Experimental transmission of *Dirofilaria immitis* by *Anopheles quadrimaculatus*, **Newton,** W. L. ; Plant-parasitic nematodes under influence of cropping, **Oostenbrinck,** M. (**4**) ; Percentage of cattle infected with hump sore in Pakistan, **Rahman,** M. H. ; Incidence of *Cystocaulus ocreatus* among sheep in England, **Rose,** J. H. (**1**) ; Trichinosis in Greenland between 1948–53, **Roth,** H. & **Madsen,** H. ; Endemicity of human helminths in Malaya, **Sandosham,** A. A. ; Survey of *Enterobius vremicularis* infection in Egypt, **Scott,** J. A. ; Transmission of *Dictyocaulus viviparus*, **Spedding,** C. R. W. & **Michel,** J. F. ; Helminthiasis in pigs, **Sprehn,** C. E. W. ; Human helminthiasis in Eastern Province of Saudi Arabia, **Tarizzo,** M. L. ; Incidence of *Enterobius vermicularis* in the Netherlands, **Thiel,** P. H. van ; Prevalence of trichinosis in Arctic animals, **Thorshaug,** K. & **Rosted,** A. F. ; Incidence of human helminth infestation in Zambézia district of Portuguese E. Africa. **Tito de Morais,** A. (**1**), (**2**) ; Incidence of *Capillaria hepatica* in wild *Rattus norvegicus*, Illinois, **Wantland,** W. W. ; Incidence of *Onchocerca* in Welsh cattle, **Webber,** W. A. F. ; Filariasis among Indian Jews in Israel, **Yoeli,** M. (**1**), (**2**).

Pathology : Effect on host.—Wandering nematodes causing disease in man, **Beaver,** P. C. ; Distribution of *Strongyloides stercoralis* in man, **Brown,** H. W. & **Perna,** V. ; *Setaria* associated with "Khutila" disease in Russian cattle, **Chubabriya,** I. I. & **Goderdzishvili,** G. I. ; Canker in beet associated with *Ditylenchus dipsaci*, **Dunning,** R. A. ; Effects of helminths in man, **Gerwel,** C. ; Experimental infection of calves with *Trichostrongylus colubriformis*, **Herlich,** H. ; Oesophageal tumours associated with *Spirocerca lupi* in dogs, **Jarrett,** W. F. H. & **Urquhart,** G. M. (**1**) ; Pathogenesis of *Dictyocaulus viviparus* in cattle, **Jarrett,** W. F. H. & **Urquhart,** G. M. (**2**) ; Disabling effects of filariasis in man, **Kessel,** J. F. ; Effect of *Heterodera rostochiensis* on potato crops, **Lapage,** G. ; *Heterakis gallinae* transmitting blackhead in-

fection in turkeys. **Lund,** E. E. & **Burtner,** R. H. ; *Enterobius* associated with uterine disorders of woman, **Maldonado Quiles,** A. ; Toxins produced by eelworms in plants, **Nolte,** H. W. (**1**) ; Etiological association between *Aphelenchoides* spp. and *Corynebacterium fascians* in strawberry disease, **Pitcher,** R. S. & **Crosse,** J. E. ; Nematodes associated with chronic diarrhoea in children, **Rembrowska-Wachowska,** M. ; Failure of *Trichinella* to transmit mouse leucaemia, **Rowland,** M. E. & **Rendtorff,** R. C. ; Distribution of *Wuchereria bancrofti* in man, **Rowlands,** S. ; Hyperpigmentation in man associated with intestinal helminthiasis, **Sahu,** K. C. ; Pathogenicity of *Xiphinema diversicaudatum*, **Schindler,** A. F. (**2**) ; Pathogenicity of *Xiphinema diversicaudatum* in strawberries, **Schindler,** A. F. & **Braun,** A. J. ; Effect of *Trichostrongylus axei* on consumption and excretion of chemical elements by lambs, **Shumard,** R. F. ; Plant-parasite nematodes associated with *Verticillum*-wilt on hops, **Simon,** L. ; Effect of nematodes on weight and wool-production in sheep, **Spedding,** C. R. W. & **Brown,** T. H. ; Pathology of *Nippostrongylus muris* infestation in rats, **Symons,** L. E. A. ; Pathogenicity of *Dioctophyme renale*, **Szwejkowski,** H. ; Effects in pigs of experimental infection with larvae of cattle-nematodes, **Tromba,** F. G. & **Douvres,** F. M. ; Pathogenicity of *Meloidogyne* spp. to selections of *Lespedeza*, **Ward,** H. S. ; Damage to carrots by *Pratylenchus* and *Paratylenchus*, **Weischer,** B. (**2**) ; *Enterobius* associated with appendicitis in man, **Zuliński,** T.

Economics : Control.—Soil-fumigation in control of *Tylenchorhynchus martini*, **Atkins,** J. G. & **Fielding,** M. J. ; Effects of parasitic nematodes on livestock production, **Boughton,** D. C. ; Effect of pasture-rotation on gastrointestinal nematodes in sheep, **Bradley,** R. E. & **Levine,** N. D. ; Effects of light and temperature in control of *Meloidogyne hapla*, **Brande,** J. van den & **Gillard,** A. (**2**) ; Control of the lucerne stem-eelworm in Britain, **Brown,** E. B. ; Efficacy of piperazine against *Enterobius* in man, **Brown,** H. W. & **Chan,** K. F. ; Efficacy of piperazine against *Enterobius* and *Ascaris* in man, **Brown,** H. W., **Chan,** K.-F. & **Hussey,** K. L. ; Efficacy of promethaizine and pyrathiazine against *Enterobius* in children, **Brown,** H. W., **Chan,** K.-F. & **Yolken,** H. ; Predation of free-living nematodes by fungi, **Capstick,** C. K. et al. ; Capture of nematodes by fungus, **Drechsler,** C. ; Fungi as control agents of eelworms, **Duddington,** C. L. ; Effect of piperazine on oxyuriasis and ascariasis in man, **Erdhardt,** A. (**1**) ; Efficacy of piperazine hydrate against oxyuriasis in rabbits, **Erhardt,** A. (**2**) ; Chemotherapy of *Toxocara* in cats, **Erhardt,** A. (**3**) ; Efficacy of piperazine against *Ascaris* in man, **Fields,** D. N. et al. ; Efficiency of dehelminthization in control of *Dictyocaulus*, **Gagarin,** V. G. (**4**) ; Control of filariasis in Tahiti, **Galliard,** H. (**2**) ; Effect of adipate of piperazine on *Ascaris equorum*, **Gouveia,** P. F. & **Rabello,** E. X. ; Control measures for potato-root eelworm in Germany, **Hey,** A. ; Effect of chlorination on *Ascaris* eggs in sewage, **Iwańczak,** I. & **Dozanska,** W. ; Nematode control in giraffe and okapi, **Jaskoski,** B. J. ; Control of human filariasis, **Kessel,** J. F. ; Control of human helminthiasis in Poland, **Kozusznik,** B. ; Control of *Heterodera rostochiensis*, **Lapage,** G. ; Efficacy of cadmium oxide against *Trichinella* in mice, **Larsh,** J. E. & **Goulson,** H. T. ; Efficacy of paraffin gas in control of gall-nematodes, **Mekhtiev,** S. D. & **Kasimova,** G. A.; Basis of eelworm control, **Oostenbrink,** I. M. (**1**) ; Soil sampling for eelworms in crops, **Oostenbrink,** M. (**2**) ; Nematicidal action of *Tagetes* on *Pratylenchus*, **Oostenbrink,** M. et al.; Hot-water treatment for *Heterodera* cysts on lily of the valley, **Pape,** H. ; Control of potato-nematodes, **Paramonov,** A. A. & **Bryushkova,** F. I. ; Efficacy of piperazine adipate against intestinal nematodes in children, **Ricci,** M. & **Corbo,** S. ; Rôle of parasitic nematodes in control of insect pests, **Rühm,** W. (**4**) ; Effects of *Ditylenchus dipsaci* on beet-growing in Baden-Wurttemberg, Germany, **Salentiny,** T. ; Effects of field-management on *Meloidogyne javanica* infestation of tomatoes, **Sauer,** M. R. & **Giles,** J. E. ;

Control of *Stephanurus dentatus* in pigs, **Stewart,** T. B. & **Tromba,** F. G. ; Control of *Heterodera rostochiensis* under glass, **Stone,** L. E. W.

HOST-DISTRIBUTION

Plantae.—Ten new *Trichodorus* spp. associating with roots of plants, **Allen,** M. W. (**1**) ; New *Dolichodorus* sp. about roots of *Arctostaphylos manzanita,* California, **Allen,** M. W. (**2**) ; Nematodes associating with barley in Hungary, **Andrássy,** I. (**2**) ; New *Aphelenchoides* sp. on roots of lemon tree, Hungary, **Andrássy,** I. (**4**) ; *Meloidogyne* and *Heterodera* spp. attacking plants in Belgium, **Brande,** J. Van der & **Gillard,** A. (**1**) ; Lucerne stem-eelworm in Britain, **Brown,** E. B. ; New *Xiphinemella* sp. about roots of *Quercus, Acer* and *Pteris* spp., Florida, **Chitwood,** B. G. (**1**) ; Two new *Criconema* spp. from Florida, **Chitwood,** B. G. (**2**) ; New genus of criconematid nematodes from plants in Florida, **Chitwood,** B. G. & **Birchfield,** W. ; *Atylenchus decalineatus* redescr. from about roots of plants, Florida and New Jersey, **Chitwood,** B. G. & **Tarjan,** A. C. ; Two new *Aphelenchoides* spp. in Britain, **Franklin,** M. T. (**2**) ; *Heterodera humuli* in hops, Belgium, **Gillard,** A. & **Brande,** J. van den ; *Meloidogyne* spp. found among plant-roots in Germany, **Goffart,** H. (**3**) ; New *Rotylenchus* sp. on roots of boxwood, Maryland, **Golden,** A. M. (**1**) ; New *Hoplolaimus* sp. on roots of oil-palm, British Cameroons, **Goodey,** J. B. ; *Radopholus oryziae* associated with roots of *Caltha palustris,* Germany, **Hirschmann,** H. ; *Heterodera schachtii* on sugar-beet in Oregon, **Jensen,** H. J. et al. ; Two new nematodes among soya bean roots, Brazil, **Lordello,** L. G. E. (**1**) ; *Meloidogyne inornata* and new *Rotylenchus* sp. attacking roots of red anthurium, Brazil, **Lordello,** Ll G. E. (**2**) ; New *Radopholus* sp. on roots of rice, French Cameroons, **Luc,** M. (**1**) ; New *Tylenchulus* sp. in roots of *Dorstenia embergeri,* Ivory Coast, **Luc,** M. (**2**) ; *Meloidogyne incognita acrita* on sugar-cane, Louisiana, **Martin,** W. J. & **Fielding,** M. J. ; Plant-parasitic nematodes in Israel, **Minz,** G. ; Differentiation of cysts of *Heterodera schachtii, H. s.* var. *trifolii* and *H. avenae,* **Mulvey,** R. H. (**1**) ; *Ditylenchus dipsaci* attacking onion in central Germany, **Nolte,** H. W. (**2**) ; Nematode pests in tree-nurseries, Germany, **Nolte,** H. W. & **Dieter,** A. ; *Pratylenchus penetrans* and *P. pratensis* not parasites of potatoes, **Oostenbrink,** M. (**3**) ; Nematodes from mushroom-beds, Germany, **Paesler,** F. (**1**) ; Experimental hosts of *Meloidogyne* in Ghana, **Peacock,** F. C. (**1**) ; New Tylenchulid nematode among roots of *Quercus falcata,* Florida, **Raski,** D. J. ; Hosts of *Ditylenchus dipsaci* in Baden-Württemberg, Germany, **Salentiny,** T. ; *Radopholus gracilis* redescribed from roots of wild rice, Ontario, **Sanwal,** K. C. (**1**) ; New *Chambersiella* sp. from bark of oak tree, Canada, **Sanwal,** K. C. (**2**) ; Nematodes associating with roses in commercial greenhouses, U.S.A., **Schindler,** A. F. (**1**) ; *Heterodera schachtii* in *Beta patellaris* **Shepherd,** A. M. ; Plant-parasitic nematodes in hop-plantations, Bavaria, **Simon,** L. ; Plant-parasitic nematodes from Virginia, **Somerville,** A. M. & **Young,** V. H. ; *Heterodera cacti* and *Meloidogyne* spp. on cacti in England, **Southey,** J. F. (**1**) ; *Ecphyadophora tenuissima* redescribed from various plant-roots, Florida and Holland, **Tarjan,** A. C. ; Two new *Pratylenchus* spp. from Maryland, **Taylor,** D. P. & **Jenkins,** W. R.

Annelida.—*Eisenia lonnbergi* as experimental interhost of *Metastrongylus elongatus* and *Choerostrongylus pudendotectus,* N. America, **Dayton,** D. A.

Mollusca.—Terrestrial molluscs as interhosts for Protostrongylids in Hungary, **Kassai,** T. ; *Agriolimax laevis* as experimental interhost of *Aelurostrongylus abstrusus* in Queensland, **Mackerras,** M. J. (**3**) ; Molluscan interhosts of *Protostrongylus* in polar hares, **Rizhikov,** K. M., **Gubanov,** N. M. & **Fedorov,** K. P. ; *Agriolimax agrestis* and *A. reticulatus* as experimental interhosts of *Muellerius capillaris,* **Rose,** J. H. (**2**) ; New drilonematid nematode in gastropod mollusc, Indonesia, **Théodoridès,** J. (**2**).

Acarina.—New *Howardula* sp. in Acarina, Germany, **Wachek,** F.

Myriapoda.—New Oxyuroids from Diplopods, Brazil, **Ruiz,** J. M. & **Coelho,** E.

Crustacea.—*Gammarus* and *Corophium* as interhosts of *Pomphorhynchus laevis*, **Engelbrecht,** H. ; *Polymorphus minutus* larvae in *Gammarus pulex*, **Hynes,** H. B. N. & **Nicholas,** W. L. ; *Gammarus pulex* as interhost of *Polymorphus minutus*, **Nicholas,** W. L. & **Hynes,** H. B. N. ; *Contracaecum* larvae in *Erythrops erythrophthalma*, *Mysis mixta* and *Neomysis americana*, Nova Scotia, **Scott,** D. M.

Insecta.—*Subulura suctoria* encysted in *Ocnera hispida* and *Blaps polycresta*, **Abdou,** A. H. & **Selim,** M. K. ; *Diplotriaenoides translucidus* larvae in *Camnula pellucida*, N. America, **Anderson,** R. C. (**1**) ; *Fannia canicularis* and *F. benjamini* as interhosts for *Thelazia californiensis*, California, **Burnett,** H. S. et al. ; *Formica fusca* as host for new *Mermis* sp., Roumania, **Coman,** D. ; *Onchocerca volvulus* larvae in *Simulium bovis*, N. Nigeria, **Crosskey,** R. W. (**1**) ; *Onchocerca volvulus* in *Simulium damnosum*, N. Nigeria, **Crosskey,** R. W. (**2**) ; *Aëdes pembaensis* as vector of bancroftian filariasis in East Africa, **Heisch,** E. B. et al. ; Infective larvae of *Parabronema skrjabini* in *Lyperosia titillans*, Mongolia and W. Kazakhstan, **Ivashkin,** V. M. (**2**) ; New *Sphaerularia* sp. in bark-beetle, Canada, **Khan,** M. A. (**1**) ; New *Sphaerularia* sp. in Douglas fir beetle, Canada, **Khan,** M. A. (**2**) ; New *Galebiella* sp. in *Hydrous ater*, Brazil, **Kloss,** G. R. ; *Pogonomyrmex barbatus* var. *molefaciens* as interhost of *Skrjabinoptera phrynosoma* Texas, **Lee,** S. H. ; Four new *Aphelenchulus* spp. in bark-beetles, N. America, **Massey,** C. L. ; *Mermis* sp. in *Chilotraca infuscatellus*, India, **Mohammad Ali,** S. ; *Anopheles quadrimaculatus* as a vector for *Dirofilaria immitis*, **Newton,** W. L. ; Nematodes from bark-beetles, **Rühm,** W. (**1**) ; Two new nematodes associating with Lucanid beetles, **Rühm,** W. (**3**) ; Intestinal nematodes from *Hydrophilus pistaceus*, France, **Théodoridés,** J. (**1**) ; New nematodes from Passalid beetles, Brazil, **Travassos,** L. & **Kloss,** G. R. (**1**) ; New nematodes from *Passalus* and *Paxillus* spp., Brazil, **Travassos,** L. & **Kloss,** G. R. (**2**) ; Tylenchid parasites of insects, **Wachek,** F. ; *Mansonia longipalpis* as experimental interhost of *Wuchereria malayi*, **Wharton,** R. H. (**2**) ; *Gryllulus assimilis* as interhost of *Physaloptera praeputialis*, Brazil, **Zago Filho,** H. (**1**) ; Insecta as interhosts for *Physaloptera praeputialis*, **Zago Filho,** H. (**2**).

Fishes.—*Echinorhynchus gadi* in *Gadus callarias*, Greenland, **Baer,** J. G. (**1**) ; New Neoechinorhynchid in Gulf killifish, Texas, **Bullock,** W. L. ; *Sterliadochona ssavini* [*Metabronema* sp.] in trout, Czechoslovakia, **Cákay,** E. (**2**) ; *Philometra sanguinea* in *Carassius carassius*, Czechoslovakia, **Cákay,** E. (**2**) ; Hosts of cucullanine nematodes, **Campana-Rouget,** Y. ; Helminths of fishes in Loch Lomond, **Copland,** W. O. ; New Quadrigyrid in a pimelodid fish, Venezuela, **Diaz-Ungria,** C. & **Rodrigo,** A. G. ; Helminths of *Clupea harengus*, **Dollfus,** R. P. (**2**) ; Helminths of *Clupea harengus*, Baltic and N. Atlantic, **Dollfus,** R. P. (**5**) ; Endoparasites of fishes in the High Tatra, **Dyk,** V. (**1**) ; *Echinorhynchus clavula* in trout, Czechoslovakia, **Dyk,** V. (**2**) ; *Aspersentis austrinus* in *Notothenia* spp., Heard Is., **Edmonds,** S. T. (**1**) ; Acanthocephala from fishes, Southern Ocean, **Edmonds,** S. J. (**5**) ; Distribution of *Neoechinorhynchus cylindratus* in N. America, **Holloway,** H. L. (**2**) ; Helminths from *Salmo ischchan issykogegarkuni* in Lake Issik-Kul, Kirgizia, Russia, **Iksanov,** K. I. (**1**) ; Helminths from fish in Lake Issik-Kul, Kirgizia, Russia, **Iksanov,** K. I. (**3**) ; Helminths of *Esox lucius*, Czechoslovakia, **Kašták,** W. (**2**) ; *Echinorhynchus impudicus* redescribed from *Doras* and *Rhinodoras* spp., Brazil. **Kritscher,** E. ; Three species of nematodes in marine fishes, Queensland, **Mawson,** P. M. (**4**) ; *Camallanus ancyclodirus* in *Cyprinus carpio*, Oklahoma, **Roberts,** L. S. ; New *Echinorhynchus* sp. in fishes in the Gulf of St. Lawrence, **Ronald,** K. (**1**) ; Helminths of percoids in Czechoslovakia and the Black Sea area, **Vejnar,** F. ; New *Spirocamallanus* sp. in "homa fish", N. Rhodesia, **Yeh,** L. S. (**7**).

Amphibia.—New *Megalobatrachonema* sp. in *Triton* spp., France, **Chabaud,** A. G. & **Golvan,** Y. J. (**1**) ; Two new nematodes from

Racophorus sp., Madagascar, **Chabaud,** A. G. & **Brygoo,** E. R. ; Helminths in salamanders from Oklahoma, Arkansas and Missouri, U.S.A., **Malewitz,** T. D. ; Helminths from *Rana e. esculenta* in eastern Thuringia, **Odening,** K. ; New family of nematodes in *Rana palmipes*, Brazil, **Teixeira de Freitas,** J. F. & **Dobbin,** J. E.

Reptilia.—Four new oxyurids from Egyptian reptiles, **Belle,** E. A. ; *Neoechinorhynchus* spp. in *Pseudemys scripta troosti*, Arkansas, **Cable,** R. M. & **Fisher,** F. M. ; Nematodes from Moroccan lizards, **Chabaud,** A. G. & **Golvan,** Y. J. (**2**) ; New *Pseudoporrorchis* sp. larva in *Lycodon* sp., India, **Das,** E. N. (**1**) ; *Centrorhynchus falconis* larvae in *Ptyas mucosus*, India, **Das,** E. N. (**2**) ; New *Cyrtosomum* sp. in N. American iguanids, **Gambino,** J. J. ; *Physaloptera bancrofti* and *Ophidascaris filaria*, in *Aspidites melanocephalus*, Queensland, **Mawson,** P. M. (**1**) ; *Dracunculus* sp. in *Natrix sipedon*, N. America, **Mirza,** M. B. & **Roberts,** L. S. ; *Kalicephalus natricis* in *Natrix tigrina lateralis*, Korea, **Olsen,** L. S. ; *Ophidascaris arndti* redescribed from *Xenodon merremii*, Brazil, **Teixeira de Freitas,** J. F. (**1**) ; New *Parapharyngodon* sp. in *Liolaemus lenzi*, Bolivia, **Teixeira de Freitas,** J. F. (**3**).

Aves.—*Diplotriaenoides translucidus* and *Diplotriaena* spp. in N. American birds, **Anderson,** R. C. (**1**) ; Helminths from Greenland birds, **Baer,** J. G. (**1**) ; Redescription of *Polymorphus minutus* from anserines, Poland, **Bezubik,** B. (**1**) ; *Polymorphus contortus* redescribed from Anseriformes, Poland, **Bezubik,** B. (**2**) ; Juveniles of new *Polymorphus* sp. in *Fulica atra*, Canada, **Connell,** R. & **Corner,** A. H. ; New *Pseudoporrorchis* sp. in *Centropus* spp., India, **Das,** E. N. (**1**) ; Nematodes from Otidiformes, **Dollfus,** R. P. & **Chabaud,** A. G. (**2**) ; Descriptive note on *Gordiorhynchus buteonis*, **Dollfus,** R. P. & **Golvan,** Y. J. ; *Corynosoma clavatum* in *Phalacrocorax atriceps nivalis*, Heard Is., **Edmonds,** S. J. (**1**) ; New *Contracaecum* sp. and *Physaloptera maxillaris* in pelicans, Mexico, **Flores Barroeta,** L. (**2**) ; Helminths from birds of prey in Poland, **Furmaga,** S. (**2**) ; Nematodes from galliform game-birds of Kirgizia, Russia, **Gagarin,** V. G. (**1**) ; *Pseudoporrorchis rotundatus* from *Centropus madagascariensis*, **Golvan,** Y. J. (**1**) ; *Oligacanthorhynchus ricinoides* redescribed from *Coracias garrula*, Iran. **Golvan,** Y. J. (**2**) ; Acanthocephala from birds in French West Africa, **Golvan,** Y. J. (**5**) ; New *Gordiorhynchus* sp. in *Polyboroides madagascariensis*, **Golvan,** Y. J. (**6**) ; Helminths in *Lophortyx gambelii*, Nevada, **Gullion,** G. W. ; *Porrocaecum heteropterum* redescribed from *Theristicus* and *Phimosus* spp., Brazil, **Hartwich,** G. (**1**) ; New *Thelazia* sp. in eye of broad-winged hawk, Georgia, U.S.A., **Hwang,** J. C. & **Wehr,** E. E. ; Helminths of game-birds in Azerbaidzhan, Russia, **Kasimov,** G. B. (**2**) ; Nematodes of galliform birds, **Kasimov,** G. B. (**3**) ; *Ascaridia dissimilis* in turkeys, U.S.A., **Kerr,** K. B. ; Acanthocephala from birds in Gruzia, Russia, **Kirashvili,** B. E. ; Helminths in *Coturnix coturnix*, Turkey, **Kurtpinar,** H. ; Morphological note on *Diplotriaena alpha* from *Calamanthus fuliginosus*, S. Australia, **Mawson,** P. M. (**1**) ; Filariid nematodes from Canadian birds, **Mawson,** P. M. (**2**) ; Helminths of domestic fowls in Venezuela, **Mayaudon, T.,** H. ; **Vogelsang,** E. H. & **Mayaudon T.,** H. ; Thelaziid nematodes from Brazilian birds, **Strachan,** A. A. ; Nematodes from birds, Belgian Congo, **Vuylsteke,** C. ; New *Oxyspirura* sp. in brown-headed nuthatch, Georgia, U.S.A., **Wehr,** E. E. & **Hwang,** J. C. (**1**) ; Redescription of *Filaria helicina* from *Anhinga anhinga*, **Wehr,** E. E. & **Hwang,** J. C. (**2**) ; New *Chandlerella* sp. in *Rhamphastos dicolorus*, Brazil, **Yeh,** L. S. (**3**) ; Helminths from a great bustard in London Zoo, **Yeh,** L.-S. (**8**).

Marsupialia.—Helminths in opossums, Illinois, **Babero, B. B.** (**1**) ; *Cruzia tentaculata* redescribed from opossum, Mexico, **Flores Barroeta,** L. (**2**) ; New metastrongylid nematode in Australian marsupials, **Mackerras,** M. J. (**1**) ; Four new spp. of nematodes from Australian marsupials, **Mawson,** P. M. (**1**).

Edentata.—Two new trichostrongyles from African edentates, **Biocca,** E. & **LeRoux,** P. ; *Cruzia americana* in Texas armadillos, **Buchanan,** G. A. ;

Ancylostoma braziliense and new *Lauroia* sp. in *Dasypus*, Mexico, **Flores Barroeta,** L. (**1**) ; New *Deraiophoronema* sp. in giant anteater, London Zoo, **Yeh,** L. S. (**4**).

Cetacea.—*Bolbosoma capitatum* redescribed from *Globiocephalus melaena*, S. Australia, **Edmonds,** S. J. (**4**).

Ungulata.—New *Marshallagia* sp. in chamois and caucasian tur, Azerbaidzhan, Russia, **Asadov,** S. M. (**1**) ; New *Marshallagia* sp. in angora goat, Azerbaidzhan, Russia, **Asadov,** S. M. (**2**) ; New *Ostertagia* sp. in Caprinae of Azerbaidzhan, Russia, **Asadov,** S. M. (**3**) ; New trichostrongyle in *Capreolus capreolus*, Russia, **Asadov,** S. M. (**4**) ; *Strongyloides ransomi* in pigs, Czechoslovakia, **Beyr,** J. ; Pulmonary nematodes in ruminants from Kazakhstan, **Boev,** S. N. ; Morphological note on *Onchocerca armillata* from cattle, Ghana, **Chodnik,** K. S. ; *Setaria equina* in donkeys, Somalia, **Congiu,** S. & **Sobrero,** L. ; *Protostrongylus frosti* in *Ovis canadensis*, **Dikmans,** G. ; Lungworms and intestinal nematodes of ruminants and pigs in Czechoslovakia, **Illéš,** J. ; *Ostertagia mossi* in cattle and goats, Sardinia, **Lai,** M. ; *Stephanurus dentatus* redescribed from pigs in Argentina, **Mayer,** H. F. ; *Muellerius capillaris* and *Cystocaulus ocreatus* in English sheep, **Rose,** J. H. (**1**) ; *Protostrongylus brevispiculum* in sheep, Britain, **Rose,** J. H. et al. ; Trichostrongyles in ruminants of Indo-Pakistan region, **Sarwar,** M. M. (**2**) ; *Capillaria hepatica* in rodents of Belgian Congo, **Schwetz,** J. (**1**) ; New *Syphacia* sp. in pigs, India, **Sinha,** P. K. (**2**) ; Helminths of pigs, **Sprehn,** C. E. W.

Rodentia.—New *Citellina* sp. in Kaghan marmot, Pakistan, **Akhtar,** S. A. ; Redescription of *Necator muridis* from *Otomys irroratus*, **Biocca,** E. (**2**) ; *Dipetalonema vite* in *Rhombomys opimus*, Iran, **Chabaud,** A. G. (**4**) ; New *Polymorphus* sp. in beavers and muskrats, Canada, **Connell,** R. & **Corner,** A. H. ; Helminths from *Rattus rattus norvegicus* in Detroit, **DeGuisti,** D. L. ; Helminths in Alaskan muskrats, **Dunagan,** T. T. (**3**) ; Helminths of cottontail rabbits in Illinois, **Ecke,** D. H. & **Yeatter,** R. E. ; New *Pseudoporrorchis* sp. in Australian water-rat, **Edmonds,** S. J. (**4**) ; Helminths from rodents in the neighbourhood of Lublin, Poland, **Furmaga,** S. (**1**) ; Helminths in Moravian murines, **Holišová,** V. & **Kočiš,** M. ; Differentiation of *Syphacia muris* and *S. obvelata* from laboratory murines, **Hussey,** K. L. ; New *Syphacia* sp. in *Eutamias d. dorsalis*, new *Gongylonema* sp. in *Peromyscus* spp. and *Reithrodontomys m. megalotis*, and *Rictularia coloradensis* in rodents of Grand Canyon, Arizona, **Kruidenier,** F. J. & **Peebles,** C. R. ; Nematodes from rodents in Alberta, Canada, **Lubinsky,** G. ; *Capillaria* sp. in spleen of *Rattus rattus*, New Guinea, **Mackerras,** M. J. (**2**) ; New *Neoascaris* sp. in woodmouse, Korea, **Olsen,** L. S. ; New *Dirofilaria* sp. in cottontail rabbit, Maryland, **Price,** D. L. ; *Cricetulus griseus* as experimental host of *Trichinella spiralis*, **Ritterson,** A. L. ; No lungworms in rats in Britain, **Sandars,** D. F. (**3**) ; Filariid in *Oryzomys p. palustris*, N. America, **Scott,** J. A. et al. (**1**) ; New *Neoascaris* sp. in *Rattus assimilis*, Australia, **Sprent,** J. F. A. (**1**).

Carnivora.—New *Angiostrongylus* sp. in wild cat, Italy, **Biocca,** E. (**1**) ; *Ollulanus tricuspis* in cats, Rome, **Bronzini,** E. ; Microfilariae in blood of a Malayan dog, **Edeson,** J. F. B. & **Buckley,** J. J. C. ; *Oncicola* sp. in a dingo, Australia, **Edmonds,** S. J. (**4**) ; *Physaloptera maxillaris* redescribed from *Mephitis*, Mexico, **Flores Barroeta,** L. (**1**) ; Helminths of Carnivora in Kirgizia, Russia, **Gagarin,** V. G. & **Iksanov,** K. I. ; New *Cyathospirura* sp. in fennec fox, Egypt, **Gibbs,** H. C. (**1**) ; *Rictularia* from Egyptian foxes, **Gibbs,** H. C. (**2**) ; New *Oncicola* sp. in chacal, Angola, **Golvan,** Y. J. (**3**) ; Helminths from foxes in Poland, **Kozlowska,** J. ; New *Uncinaria* sp. and *Ancylostoma* sp. in African carnivora, and new *Ancylostoma* sp. in puma, London Zoo, **Le Roux,** P. & **Biocca,** E. ; Female of *Ancylostoma iperodontatum* in *Caracal nubicus*, Somalia, **Lipparoni,** E. ; *Wuchereria* microfilariae in dogs and cats in E. Africa, **Nelson,** G. S. & **Heisch,** R. B. ; Helminths in *Vulpes vulpes*, Azerbaidzhan, Russia, **Sadikhov,** I. A.

Pinnipedia.—Helminths in *Halichoerus grypus*, I. of Man. **Duncan,** A. ; *Corynosoma bullosum* redescribed from *Mirounga leonina* and *Hydrurga leptonyx*, Heard and Macquarie Islands, **Edmonds,** S. J. (**1**) ; Acanthocephala from seals, Southern Ocean, **Edmonds,** S. J. (**5**) ; Nematodes from seals in Gulf of St. Lawrence, **Montreuil,** P. L. J. & **Ronald,** K. ; Nematodes from seals, eastern Canadian Arctic, **Myers,** B. J. (**1**) ; Ascarids from harp seals, Magdalen Is., Quebec, **Myers,** B. J. (**2**).

Insectivora.—Probable indentity of *Echinorhynchus rosai* from *Erinaceus*, **Dollfus,** R. P. (**16**).

Chiroptera.—New *Molinostrongylus* sp. in bat. N. Rhodesia, **Yeh,** L. S. (**6**).

Primates.—*Dipetalonema streptocerca* in man, W. Africa, **Duke,** B. O. L. (**2**) ; Helminths of man, **Leikina,** E. S. ; *Abbreviata caucasica* in *Cercopithecus aethiops nesiotes*, Tanganyika, **Yeh,** L. S. (**2**) ; Morphological differentiation of *Dipetalonema caudispina* and *D. gracile*, **Yeh,** L. S. (**1**) ; New *Physaloptera* sp. in bush-baby, Tanganyika, **Yeh,** L. S. (**2**) ; New gordiid in man, Tanganyika, **Yeh,** L. S. & **Jordan,** P.

GEOGRAPHICAL DISTRIBUTION

Europe.—Nematodes in the mesopsammon of the Elbe, **Ax,** P. (**3**), Mermithids in fauna of Roumania, **Coman,** D. ; *Meloidogyne* spp. in sugar-beet growing areas of Turkey, **Diker,** T. ; Distribution of *Ditylenchus dipsaci* in England, **Dunning,** R. A. ; Free-living nematodes from mountains of Spain, **Gadea,** E. (**1**) ; Helminths of animals in Kirgizia, Russia, **Gagarin,** V. G. (**3**) ; Distribution of *Anguillulina tritici* in Azerbaidzhan, Russia, **Kasimova,** G. A. ; Helminths from predatory mammals in Gruzia, **Rodonaya,** T. E. ; New *Gordius* sp. from Italy, **Sciacchitano,** I. ; Distribution of freshwater nemathelminths in lower Franconia, **Stadler,** H. ; Parasites in fauna of Goldapiwo Lake, Poland, **Wisniewski,** W. L. (**2**).

Africa.—Marine nematodes from Belgian Congo, **Gerlach,** A. (**2**) ; *Meloidogyne* in Ghana, **Peacock,** F. C. (**1**).

Asia.—Helminths of farm-stock in Mongolia, **Ivashkin,** V. M. (**1**) ; Helminths of domesticated animals in India, **Thapar,** G. S. ; New rhabditid genus from East Pakistan, **Timm,** R. W.

N. America.—Plant-parasitic nematodes in Louisiana, **Fielding,** M. J. & **Hollis,** J. P. ; Nematodes from mammals in the Great Salt Lake Desert of Utah, **Grundmann,** A. W. ; Acanthocephala from Mountain Lake mammals, Virginia, **Holloway,** H. L. (**1**) ; Distribution of *Meloidogyne* spp. in Alabama, **Minton,** N. A.

South and Central America.—New *Mononchus* sp. from Brazil, **Carvalho,** J. C. (**1**) ; Two new free-living nematodes from Brazil, **Carvalho,** J. C. (**2**) ; New *Mononchus* sp. from Brazil, **Carvalho,** J. C. (**3**) ; List of Acanthocephala recorded from Venezuela, **Diaz-Ungria,** C. & **Rodrigo,** A. G. ; Free-living nematodes from the Brazilian coast, **Gerlach,** S. A. (**1**) ; Two free-living nematodes from Lake Nicaragua, **Gerlach,** S. A. (**3**) ; New dorylaimid nematode from forest soil, Brazil, **Lordello,** L. G. E. & **Zamith,** A. P. L. ; Freeliving nematodes from Brazil, **Meyl,** A. H. (**1**) ; Two new free-living nematodes from Brazil, **Meyl,** A. H. (**2**) ; Free-living freshwater nematodes of Peru and Lake Nicaragua, **Meyl,** A. H. (**3**) ; Helminths of wild and domestic animals in Venezuela, **Vogelsang,** E. G. & **Mayaudon T.,** H. ; Free-living marine nematodes from Chile, **Wieser,** W. (**1**).

Australia. — Freeliving marine nematodes from S. Australia, **Mawson,** P. M. (**3**).

SYSTEMATIC INDEX

NEMATHELMINTHES

NEMATODA

Acantholaimus Allgén, systematic position, *longisetosus* Allg. redescribed, p. 172 figs., **Allgén,** C. A. (**2**).

Acanthonchus viviparus Cobb, Belgian Congo, p. 9 figs., **Gerlach,** S. A. (**2**).

Acuariinae sp. in lungs of *Lamprocolius c. chloropterus*, Belgian Congo, p. 8 figs., **Vuylsteke,** C.

Aelurostrongylus abstrusus (Raill.) larva in *Agriolimax laevis*, adult in cat, Queensland, p. 188 figs., **Mackerras,** M. J. (**3**).

Alaninema **gen. nov.,** Drilonematidae, type : *venmansi* **sp. nov.** in mantle-cavity of *Amphidromus contrarius*, Timor, Indonesia, p. 267 figs., **Théodoridès,** J. (**2**).

Allantonema Leuckart defined p. 99, *mirabile* Leuck. (syn. *picei* Fuchs) in *Hylobius*, p. 101 figs., *morosa* (Fuchs) in *Hylastes*, p. 103 figs., **Rühm,** W. (**1**).—*A.* Leuckart, defined, p. 38, key to spp., p. 39, *philonthi* in *Philonthus* spp., p. 40 figs., *matthesi* in *Ochthebius* sp., p. 42 figs., **spp. nov.,** Germany, **Wachek,** F.

Altaevia **gen. nov.,** Trichostrongylidae, defined p. 4, type : *Ostertagia schulzi* Rajevskaya, pp. 3, 4, **Sarwar,** M. M. (**1**).

Amphidelus sp. innom., Brazil, p. 133 figs., **Meyl,** A. H. (**1**).

Anacanthocheilus Wülker a syn. of *Acanthocheilus* Molin, p. 227, **Hartwich,** G. (**2**).

Ancylostoma braziliense (De Faria) redescr. from int. of *Dasypus novemcinctus mexicanus*, Mexico, p. 1 figs., **Flores Barroeta,** L. (**1**).—*A. iperodontatum* **sp. nov.** male in *Acinonyx jubatus*, N. Rhodesia, *buckleyi* **sp. nov.** in *Felis concolor*, London Zoo, p. 192 figs., **Le Roux,** P. & **Biocca,** E. ; *A. iperodontatum* Le Roux & Biocca, female descr. from *Caracal nubicus*, Somalia, p. 539, **Lipparoni,** E.

Angiostrongylus chabaudi **sp. nov.** in lungs of *Felis silvestris*, Italy, p. 526 figs., **Biocca,** E. (**1**).

Anguillula Müll., systematics, p. 301, defined, p. 303, key to spp., p. 304, *dorsobidentata* **sp. nov.** on *Quercus pedunculata*, Germany, p. 309 figs., **Rühm,** W. (**1**).

Anguilluloides **gen. nov.,** Cephalobidae, p. 275, defined, p. 276, type : *Alloionema procerum* Weingärtner in frass of *Picea* and *Dryocoetes*, Germany, p. 276 figs., **Rühm,** W. (**1**).

Angulocirrus **gen. nov.,** Trichostrongylidae, *orycteropi* **sp. nov.** in *Orycteropus afer*, Somalia, and *minor* **sp. nov.** in *Manis temminckii*, Transvaal and N. Rhodesia, p. 57 figs., **Biocca,** E. & **Le Roux,** P.

Anhingofilariinae **subfam. nov.,** Dipetalonematidae, to incl. *Wymania* Wehr & Hwang, p. 650, **Wehr,** E. E. & **Hwang,** J. C. (**2**).

Anoplostoma viviparum (Bast.), Belgian Congo, p. 7 figs., **Gerlach,** S. A. (**2**).

Anticoma similis Cobb, S. Australia, p. 98 figs., **Mawson,** P. M. (**3**).

Aorurus Leidy redefined p. 37, **Basir,** M. A.—*A. agilis insularis* **var. nov.** in *Neptunobolus hogei*, Brazil, p. 51, figs., **Ruiz,** J. M. & **Coelho,** E.

Aphelenchoidea Fuchs, systematics, p. 97, key to genera, p. 98, **Wachek,** F.

Aphelenchoides citri **sp. nov.** on roots of lemon, Hungary, p. 238 figs., **Andrássy,** I. (**4**).—*A. composticola* in mushroom compost, p. 306 figs., *saprophilus* in rotting plant-tissues, p. 309 figs., **spp. nov.,** Britain, **Franklin,** M. T. (**2**).—*A. winchesi* var. *diversus* **var. nov.** p. 321 figs., *oxurus* **sp. nov.** p. 323 figs., *spinosus* **sp. nov.** p. 324 figs., *cyrtus* **sp. nov.** p. 325 figs., mushroom-beds, Germany, **Paesler,** F. (**1**).—*A.* Fisch. defined p. 212, (*A.*) *steineri* in frass of *Sesia spheciformis* p. 212 figs., (*A.*) *macrobulbosus* under bark of *Pinus sylvestris* p. 214 figs., (*A.*) *ipidicola* on *Dryocoetes villosus* p. 216 figs., **spp. nov.,** Germany, **Rühm,** W. (**1**).—*A. sinodendroni* **sp. nov.** associating with *Sinodendron cylindricum*, Germany, p. 74 figs., **Rühm,** W. (**3**).

Aphelenchulus barberus in *Dendroctonus barberi*, *D. frontalis*, New Mexico and Alabama, pl 31 figs., *brevicomi* in *Dendroctonus brevicomis*, Idaho, p. 31 figs., *spirus* in *Ips oregoni*, Colorado, *Ips* spp., New Mexico, p. 32 figs., *grandicolli* in *Ips grandicollus*, Alabama, p. 32 figs., **spp. nov., Massey,** C. L.

Aphelenchus neglectus Rensch transf. to *Pratylenchus*, p. 348, **Loof,** P. A. A.

Aplectana pharyngeodentata **sp. nov.** in large int. of *Chalcides delislii*, *C. sepoides* and *Scincus officinalis*, Egypt, p. 168 figs., **Belle,** E. A.

Aporcelaimus seinhorsti p. 130 figs., *vanderlaani* p. 130 figs., **spp. nov.,** Brazil, **Meyl,** A. H. (**1**).

Aprocta orbitalis Linst. redescr. from *Otis tarda*, London Zoo, p. 282 figs., **Yeh,** L.-S. (**8**).

Aproctella Cram reviewed, *stoddardi* Cram (syn. *nuda* YBarra) redescr. from *Zonotrichia albicollis*, *Geothlypis trichas*, *Hylocichla ustulata* and *Bonasa umbellus*, N. America, p. 26 figs., *A.* [*Carinema*] *carinii* (Pereira & Vaz) n. comb. in *Xanthornus* sp., p. 31, **Anderson,** R. C. (2).

Araeolaimus De Man, redefined p. 10, key to spp., p. 10, *cylindrolaimus* Chitw. transf. to *Southerniella* and *zosterae* (Allg.) to *Parachromagasteriella* p. 12, *gisleni* **sp. nov.,** Chile, p. 12 figs., *elegans* De Man, Chile, p. 12 figs., *laqueifer* **sp. nov.,** Chile, p. 14 figs., *retroductus* **sp. nov.,** Chile, p. 15 figs., **Wieser,** W. (**1**).

Araeolaimoides De Man redefined p. 15, *demani* Stekhoven, *leptopharynx* Bresslau & Stekh. and *zosterae* Filipjev all transf. to *Araeolaimus*, pp. 15–16, *ovalis* **sp. nov.,** Chile, p. 16 figs., **Wieser,** W. (**1**).

Artigasia Christie redefined, p. 21, key to spp., p. 25, **Basir,** M. A.—*A. dubia* **sp. nov.** in int. of *Passalus punctiger punctatissimus*, Brazil, p. 302 figs., **Travassos,** L. & **Kloss,** G. R. (**1**).—*A. martinezi* in int. of *Passalus quadricollis*, p. 468 figs., *ovicarenata* in int. of *P. q.*, *p.* 470 figs., *wanderbilti* in int. of *P. q.*, p. 471 figs., *macrovata* in int. of *P. q.*, p. 472 figs., *coronata* in int. of *Paxillus pentaphylloides*, p. 472 figs., *minuta* in int. of *P. pent.*, p. 474 figs., **spp. nov.,** Brazil, **Travassos,** L. & **Kloss,** G. R. (**2**).

Ascaridia compar (Schrank) in *Coturnix coturnix* p. 92 fig., *alectoris* **sp. nov.** in int. of *Alectoris graeca* p. 92 fig., *skrjabini* Fediushin in *Tetraogallus himalayensis* p. 93 fig., Kirgizia, Russia, **Gagarin,** V. G. (**1**).

Ascaridoidea, systematics, p. 211, ket to genera, p. 246, **Hartwich,** G. (**2**).

Aspiculuris tetraptera (Nitzsch) redescr. from *Apodemus agrarius*, *A. sylvaticus*, *Mus musculus*, Poland, p. 31 fig., **Furmaga,** S. (**1**).

Aspidoderidae **fam. nov.,** defined, to incl. *Aspidodera* R. & H., *Ansiruptodera* Skrj. & Schikh., *Sexansodera* S. & S., and *Paraspidodera* Trav., p. 140, **Inglis,** W. G.

Assia **gen. nov.,** Halaphanolaimidae, defined, p. 450, type : *laureata* **sp. nov.,** Brazil, p. 450 figs., **Gerlach,** S. A. (**1**).

Atylenchus decalineatus Cobb redescr. from about roots of *Oxycoccus macrocarpus*, *Saccharum officinarum* and *Diospryos virginiana*, Florida and New Jersey, p. 48 figs., **Chitwood,** B. G. & **Tarjan,** A. C.

Aulolaimus oxycephalus de Man, Brazil, p. 125 figs., **Meyl,** A. H. (**1**).

Avilandros Skrj. & Shikhobalova a syn. of *Thelandros*, p. 22, **Teixeira de Freitas,** J. F. (**4**).

Avioserpens nana **sp. nov.** in *Ardea herodias*, Canada, p. 218 figs., **Mawson,** P. M. (**2**).

Axonolaimidae, systematics, p. 3, **Wieser,** W. (**1**).

Axonolaimus procerus **sp. nov.,** Brazil, p. 445 figs., **Gerlach,** S. A. (**1**).

Barbonema flagrum **sp. nov.,** Brazil, p. 423, figs., **Gerlach,** S. A. (**1**).

Bathepsilonema bahiae **sp. nov.,** Brazil, p. 444 figs., **Gerlach,** S. A. (**1**).

Bathylaimus Cobb redefined p. 31, *tenuicaudatus* (Allg.) p. 33 figs., *australis* Cobb p. 33 figs., *parassimilis* **sp. nov.** p. 35 figs., Chile, **Wieser,** W. (**1**).

Binema Trav. redefined p. 54, key to spp., p. 56, *B.* [*Oxyuris*] *korsakowi* (Sergiev) n. comb. p. 54, *B.* [*Periplaneticola*] *mirziai* (Basir) n. comb. p. 56, **Basir,** M. A.

Blattellicola Basir redefined p. 19, *blattellicola* Basir p. 19 figs., *B.* [*Thelastomum*] *caucasicum* (Skrj.) n. comb. p. 19 figs., **Basir,** M. A.

Blatticola Schwenk, redefined p. 20, **Basir,** M. A.

Blattophila Cobb redefined p. 41, **Basir,** M. A.

Bradynema Zur Strassen defined, p. 29, *bibionis* in *Bibio* sp., p. 31 figs., *trixagi* in *Throscus dermestoides*, p. 32 figs., **spp. nov.,** Germany, **Wachek,** F.

Brasilaimus **gen. nov.,** Actinolaiminae, defined p. 455, type : *subaquilus* **sp. nov.,** forest soil, Brazil, pl 455 figs., **Lordello,** L. G. E. & **Zamith,** A. P. L.

Buckleya **gen. nov.,** Trichostrongylinae, pp. 181, 186, type : *B.* [*Trichostrongylus*] *vitrinus* (Lss.) ; and [*T.*] *leiperi*, p. 181, **Sarwar,** M. M. (**2**).

Buckleyfilaria Singh a syn. of *Pseudaprocta* Shikhobalova p. 36, **Yeh,** L. S. (**3**).

(*Bursaphelenchus*) **subgen. nov.,** *Aphelenchoides*, defined, key to spp., p. 218, type : *A.* (*B.*) *piniperdae* Fuchs on *Myelophilus piniperdae* pp. 218, 229 figs., *poligraphi* Fuchs on *Polygraphus* p. 233 figs., *cryphali* (Fuchs) on *Cryphalus piceae* p. 234 figs., *xerokarterus* on *Scolytus* spp., p. 222 figs., *ratzeburgii* on *Scolytus ratzeburgii*, p. 224 figs., *eremus* on *Scolytus intricatus* p. 226 figs., *eucarpus* on *Scolytus mali*, p. 226 figs., *crenati* on *Hylesinus crenatus*, p. 227 figs., *incurvus* on *Dendroctonus micans*, p. 228 figs., *chitwoodi* on *Hylastes ater*, p. 231 figs., *eggersi* on *Hylurgops palliatus*, p. 231 figs., *sachi* on *Dryocoetes autographus*, p. 235 figs., *idius* on *Pityogenes chalcographus*, p. 236 figs., *nuesslini* on *Pityokteines curvidens*, p. 237 figs., *eidmanni* on *Ips typographus*, p. 238 figs., *sychnus* in frass on *Quercus pedunculata*, p. 239 figs., *fraudulentus* in frass of *Cerambyx scopolii*, p. 240 figs., **spp. nov.,** Germany, **Rühm,** W. (**1**).

Butlerius gerlachi **sp. nov.** in rainwater reserve of bromelians, Brazil, p. 63 figs., **Meyl,** A. H. (**2**).

Calyptronema pigmentatum **sp. nov.,** Brazil, p. 431 figs., **Gerlach,** S. A. (**1**).

Camacolaiminae, key to genera, p. 25, **Wieser,** W. (**1**).

Camacolaimus De Man (syn. *Ypsilon* Cobb), key to spp., p. 26, *papillosus* Allg. syn. of *Deontolaimus papillatus* De Man, p. 27, *conicaudatus* Allg., *cobbi* Allg. and *parocellatus* Allg. transf. to *Nemella* p. 27, *tardus* De Man p. 27 figs., *prytherchi* Chitw. p. 29 figs., Chile, **Wieser,** W. (**1**).

Cameronia Basir redefined p. 36, **Basir,** M. A.

Campylaimus inaequalis Cobb, Chile, p. 18 figs., **Wieser,** W. (**1**).

Capillaria sp. innom. in *Falco subbuteo*, *F. peregrinus*, *Accipiter gentilis*, *A. nisus*, *Buteo buteo*, *B. lagopus*, *Asio otus*, *A. flammeus*, *Athene noctua*, *Strix aluco*, Poland, p. 287 figs., **Furmaga,** S. (**2**). —*C. phasianina* Kotlan in *Tetraogallus himalayensis*, p. 98 fig., *annulata* (Molin) in *Phasianus colchicus*, p. 98 fig., *contorta* (Crepl.) in *T. himalayensis* p. 100 fig., Kirgizia, Russia, **Gargarin,** V. G. (**1**).—*C. hepatica* (Bancroft) in *Peromyscus maniculatus*, Canada, p. 624, **Lubinsky,** G.

Carchorolaimus Thorne, key to spp., p. 21, *formosus* **sp. nov.** among root, of soya-bean, Brazil, p. 19 figs., **Lordello,** L. G. E. (**1**).

Carinema Pereira & Vaz a syn. of *Aproctella*, p. 25, *dubia* Johnst. & Mawson and *graucalinum* J. & M. transf. to *Pseudaproctella*, p. 33, **Anderson,** R. C. (**2**).—*C. ardeae* **sp. nov.** in *Ardea herodias* and *Botaurus lentiginosis* Canada, p. 215 figs., **Mawson,** P. M. (**2**).

Carlosia **gen. nov.,** Lepidonematinae defined, p. 296, type : *tijucana* **sp. nov.** in int. of *Veturius transversus*, Brazil, p. 296 figs., **Travassos,** L. & **Kloss,** G. R. (**1**).

Cephalobellus Cobb, redefined p. 25, kep to spp., p. 29, **Basir,** M. A.

Cephalobium sociale (Leidy) n. comb. in *Gryllus assimilis*, p. 28, **Travassos** L. & **Kloss,** G. R. (**3**).

Ceramonema rectum p. 447 figs.. *filum* p. 447 figs., **spp. nov.,** Brazil, **Gerlach,** S. A. (**1**).

Ceratospira Schneider redefined, *thriponaxis* Wehr in *Ramphastos culminatus*, Brazil, p. 186, **Strachan,** A. A.

Chambersiella Cobb, systematic position, redefined, p. 616, *bakeri* **sp. nov.** from bark of oak tree, Canada, p. 616 figs., **Sanwal,** K. C. (**2**).

Chambersiellidae **fam. nov.,** Rhabditoidea, defined p. 615, to incl. *Chambersiella* Cobb, **Sanwal,** K. C. (**2**).

Chandlerella Y. & M. and *Splendidofilaria* Skrj. differentiated, p. 36, *braziliensis* **sp. nov.** in cervical airsac of *Rhamphastos dicolorus*, p. 33 figs., **Yeh,** L. S. (**3**).

Cheilospirura gruveli (Gendre) in *Alectoris graeca*, *Coturnix coturnix*, *Tetraogallus himalayensis*, p. 95 fig., Kirgizia, Russia, **Gagarin,** V. G. (**1**).

Chitwoodiella Basir redefined p. 72, **Basir,** M. A.

Christiella **gen. nov.,** Hystrignathinae, defined, p. 467, type : *christiella* **sp. nov.** in int. of *Passalus quadricollis*, Brazil, p. 467 figs., **Travassos,** L. & **Kloss,** G. R. (**2**).

Chronogaster Cobb redefined p. 3, key to spp., p. 4, *gracilis* Cobb p. 5 figs., *typicus* (De Man) p. 6 figs., *magnificus* Andrássy p. 11 figs., sp. innom. p. 11 fig., **Andrássy,** I. (**3**).—*C. brasiliensis* **sp. nov.,** Brazil, p. 125 figs., **Meyl,** A. H. (**1**).

Citellina Prendel, reviewed, *triradiata* Hall (syns. : *dispar* Prendl, *marmotae* Manter, *petrowi* Shulz, *alpina* Jettmar & Anschau, and *alatau* Spasski, Rjikov & Sudarikov) host-list and geographical distribution, p. 446 figs., **Read,** C. P. (**1**).—*C. bashiri* **sp. nov.** in caecum of *Marmota caudata*, Pakistan, p. 1 figs., **Akhtar,** S. A.

Cobbia De Man, key to spp., 65, *sabulicola* Filipj. transf. to *Theristus* p. 66, *scutata* **sp. nov.,** Chile, p. 66, figs., **Wieser,** W. (**1**).

Cobboldostrongylus **gen. nov.,** Trichostrongylinae, pp. 181, 187, type *C.* [*Trichostrongylus*] *axei* (Cobb.) in *Capra hircus*, *Ovis nahura*, *Gazella benetti*, *Bos indicus*, p. 188 figs., to incl. also [*T.*] *minor* (Mönnig), p. 181, **Sarwar,** M. M. (**2**).

Contortylenchidae **fam. nov.,** Tylenchoidea, for *Contortylenchus* Rühm, p. 130, **Rühm,** W. (**1**).

Contortylenchus **gen. nov.,** Contortylenchidae, defined p. 130, type : *Allantonema diplogaster* Linst. in *Ips*, pp. 130, 145, figs., key to spp., p. 131, *cunicularii* (Fuchs) (syn. *Tylenchus contortus cunicularii* Fuchs) in *Hylastes*, p. 135 figs., *cryphali* **sp. nov.** in *Cryphalus piceae*, Germany, p. 137 figs., *chalcographi* (Fuchs) (syn. *Parasitylenchus contortus chalcographi* Fuchs) in *Pityogenes*, p. 139, *tomici* (Bovien) (syn. *Aphelenchulus tomici* Bov.) in *Pityogenes*, p. 140 figs., *laricis* (Fuchs) (syn. *Tylenchus contortus laricis* Fuchs) in *Ips*, p. 140 figs., *amitini* **sp. nov.** in *Ips amitinus*, Germany, p. 142 figs., *acuminati* **sp. nov.** in *Ips acuminatus*, Germany, p. 142 figs., **Rühm,** W. (**1**).

Contracaecum mexicanum **sp. nov.** in int. of *Pelecanus occidentalis californicus*, Mexico, p. 277 figs., **Flores Barroeta,** L. (**2**).

Criconema Hofmänner & Menzel, key to spp., p. 59, *decalineatum* on roots of *Ficus elasticha* p. 57 figs., *spinalineatum* on roots of *Zoysia matrella* p. 57 figs., **spp. nov.,** Florida, **Chitwood,** B. G. (**2**).

Criconemoides brachyurus Loos, *cocophillus* Loos and *gaddi* Loos transf. to *Hemicriconemoides*, pp. 84, 85, **Chitwood,** B. G. & **Birchfield,** W.

Cruzia Trav., review of spp., p. 186, *tentaculata* (Rud.) redescr. from *Didelphis marsupialis californica*, Mexico, p. 283 figs., **Flores Barroeta,** L. (**2**).

Cryptaphelenchus Fuchs defined, key to spp., p. 198, *koeneri* on *Hylastes* spp., p. 202 figs., *cryptus* in cement-glands of *Hylurgops palliatus*, p. 203 figs., *poligraphi* on *Polygraphus polygraphus*, p. 203 figs., *piceae* on *Cyrphalus piceae* p. 204 figs., *m. macrogasteroides* **subsp. nov.** on *Dryocoetus autographus* p. 205, *m. villosi* **subsp. nov.** on *Dryocoetes villosus* p. 205 figs., *piceoides* on *Pityokteines curvidens* p. 208 fig., *leptocaudus* on *Ips* spp., p. 209 figs., **spp. nov.,** *m. malpighius* (Fuchs) in malpighian tubes of *Pityogenes chalcographus* p. 207 fig., *macrogaster macrogaster* (Fuchs) on *Ips*, p. 209 figs., *macrogaster acuminati* **subsp. nov.** on *Ips acuminatus*, pl 210 fig., Germany, **Rühm,** W. (**1**).

Cucullaninae Yorke & Maplest., revision, **Campana-Rouget,** Y.

Cucullanus tripapillatus Gendre in Sparidae, p. 419 figs., *chrysophrydis* Gendre in *Pagellus bogaraveo*, p. 421 figs., *elongatus* (Törnquist) in *Umbrina canariensis*, p. 422 figs., *gendrei* **sp. nov.** in *Syacium micrurum*, p. 423 figs., *murenophidis* **sp. nov.** in *Murenophis robusta*, p. 424 figs., *dodsworthi* Barreto in *Lagocephalus laevigatus*, p. 425 figs., *pulcherrimus* Barr. in *Trachinotus maxillosus*, p. 427 figs., *mauritanicus* Gendre in *Diagramma mediterraneum*, p. 427 figs., W. Africa, *interrogativus* Trav., Artigas & Pereira transf. to *Neocucullanus*, p. 456, *schubarti* Trav. a syn. of *pauliceae* Vaz & Pereira, p. 456, *australiensis* Baylis a var. of *hians*, p. 456, *heterodonti* Johnst. & Mawson transf. to *Dacnitis*,

p. 456, *niloticus* **sp. nom. nov.** pro *serratus* of Törnquist, 1931, from *Trionyx* spp., p. 451, **Campana-Rouget,** Y.

Cyathospirura seurati **sp. nov.** in stom. of *Fennecus zerda*, Egypt, p. 201 figs., **Gibbs,** H. C. (**1**).

Cyathostoma sp. innom. in *Buteo lagopus*, *Tyto alba*, Poland, p. 285 figs., **Furmaga,** S. (**2**).

Cylindrolaiminae, systematics, p. 7, key to genera, p. 9, **Wieser,** W. (**1**).

(*Cylindrotheristus*) **subgen. nov.,** *Theristus*, defined p. 92, type : *T.* (*C.*) *normandicus* De Man, p. 92, **Wieser,** W. (**1**).

Cyrtosomum penneri **sp. nov.** in caecum of *Callisaurus draconoides gabbii* (type-host), *Sceloporus occidentalis biseriatus*, *S. graciosus vandenburgianus*, *Petrosaurus* sp., N. America, p. 76, figs., **Gambino,** J. J.

Dacnitoides robusta Van Cl. & Mueller transf. to *Neocucullanus*, p. 456, **Campana-Rouget,** Y.

Dasynemella cincta **sp. nov.,** Brazil, p. 448 figs., **Gerlach,** S. A. (**1**).

Dasynemoides cristata p. 448 figs., *lata* p. 450 figs., **spp. nov.,** Brazil, **Gerlach,** S. A. (**1**).

Deladenus obesus Thorne in mushroom beds, Germany, p. 319 figs., **Paesler,** F. (**1**).—*D. norimbergensis* **sp. nov.** on *Quercus* spp., Germany, p. 159 figs., **Rühm,** W. (**1**).

Deraiophoronema freitaslenti **sp. nov.** in mesentery of *Myrmecophaga tridactyla*, London Zoo, p. 196 fig., **Yeh,** L. S. (**4**).

Desmicola **gen. nov.,** Oxyuridae, defined p. 75, type : *D.* [*Oxyuris*] *leidyi* (Skrj.) from *Polydesmus* sp., p. 76 figs., **Basir,** M. A.

Desmidocerca nudicauda sp. nov. in *Ardea herodias* p. 213 figs., *incognita* (Ssolonitzin) redescr. from *Phalacrocorax a. auritus* p. 214 figs., Canada, **Mawson,** P. M. (**2**).

Desmidocercella Y. & M., constitution, p. 346, **Chabaud,** A. G. (**5**).

Dibulbiger Caballero syn. of *Falcaustra* Lane, p. 249, **Chabaud,** A. G. & **Golvan,** Y. J. (**1**).

Dichelyne laticeps Baylis transf. to *Neocucullanus*, p. 456, **Campana-Rouget,** Y.

Didelta scutata **sp. nov.,** Chile, p. 19, figs., **Wieser,** W. (**1**).

Dipetalonema vite (Krepk.) n. comb. (syn. *blanci* Chabaud) in *Rhombomys opimus*, Iran. p. 342, **Chabaud,** A. G. (**4**).—*D. gracile* (Rud.) and *caudispina* (Molin) morphological differentiation, p. 302, **Yeh,** L. S. (**1**).

Diplogaster (*Eudiplogaster*) *robinicola* **sp. nov.,** Germany, p. 387 figs., **Rühm,** W. (**1**).

Diplogasteroides de Man, systematics, p. 362, defined, p. 364, key to spp., p. 365, **Rühm,** W. (**1**).

(*Diplogasteroides*) **subgen. nov.,** *Diplogasteroides*, type : *D.* (*D.*) *spengelii* de Man, p. 369, *picicola* **sp. nov.** in frass of *Dryocoetes autographus*, Germany, p. 372 figs., **Rühm,** W. (**1**).

Diplopeltis onustus **sp. nov.,** Chile, p. 18 figs., **Wieser,** W. (**1**).

Diplotriaena sialiae **sp. nov.** in *Sialia currucoides*, p. 216 figs., **spp. innom.** in *Corvus b. brachyrhynchos*, p. 217 figs., Canada, **Mawson,** P. M. (**2**).

Dirofilaria uniformis **sp. nov.** in subcutaneous connective tissue of *Sylvilagus floridanus mallurus* p. 15 figs., *scapiceps* (Leidy) from *S. f. m.* reviewed, p. 18, **Price,** D. L.

Dirofilariaformia ulari **sp. nov.** in oral cavity of *Tetraogallus himalayensis*, Kirgizia, Russia, p. 97 figs., **Gagarin,** V. G. (**1**).

Dispharynx spiralis (Molin) in *Phasianus colchicus*, p. 93, figs., Kirgizia, Russia, **Gagarin,** V. G. (**1**).

Ditylenchus Filipjev, bionomics, p. 171, key to spp., p. 174, *petithi* (Fuchs) on *Hylesinus*, p. 175 figs., *abieticolus* **sp. nov.** on *Cryphalus picae* p. 177 figs., *pityokteinophilus* **sp. nov.** on *Pityokteines curvidens*, p. 178 figs., *ortus* (Fuchs) on *Polygraphus* p. 180 figs., *panurgus* **sp. nov.** on *Hylastes*, p. 182 figs., *glischrus* **sp. nov.** on *Pityogenes chalcographus*, p. 183 figs., *striatus* (Fuchs) on *Pityogenes*, p. 185 figs., *autographi* **sp. nov.** p. 186 figs., *major* (Fuchs) on *Ips* p. 188 figs., *eremus* **sp. nov.** in frass of *Hylurgops*

palliatus, p. 189 figs., Germany, **Rühm,** W. (**1**).—*D.* sp. innom. from mushroom-beds distinguished from *destructor* Thorne, Germany, p. 316 figs., **Paesler,** F. (**1**).

Dolichodorus obtusus **sp. nov.** about roots of *Arctostaphylos manzanita*, California, p. 95 figs., **Allen,** M. W. (**2**).

Dorylaimopsis metatypicus Chitw., Belgian Congo, p. 9 fig., **Gerlach,** S. A. (**2**).

Dorylaimus nothus Thorne & Swanger p. 310, fig., *laetificans* **sp. nov.,** p. 310 figs., among roots of barley, Hungary, **Andrássy,** I. (**2**).—*D. bauruensis* **sp. nov.** among roots of soya-bean, Brazil, p. 22 figs., **Lordello,** L. G. E. (**1**).—*D. agilis* de Man p. 126 fig., *paraguayensis* Kreis, p. 126 figs., *parasubtilis* **sp. nov.,** p. 127 figs., *rioniensis* Gerlacy p. 128 figs., *santosi* **sp. nov.,** p. 128 figs., *sveltus* **sp. nov.,** p. 129 figs., Brazil, **Meyl,** A. H. (**1**).—*D. lordelloi* **sp. nov.** in rain-water reserve of bromelians, Brazil, p. 64 figs., **Meyl,** A. H. (**2**).

Drepanonema lugubre **sp. nov.,** Brazil, p. 443 figs., **Gerlach,** S. A. (**1**).

Dudekemia Artigas, comparative table of spp., p. 60, *insularis* **sp. nov.** in int. of *Neptunobolus hogei*, Brazil, p. 57 figs., **Ruiz,** J. M. & **Coelho,** E.

Ecphyadophora tenuissima de Man, redescribed from Florida and Holland, p. 152 figs., **Tarjan,** A. C.

Ectaphelenchus Fuchs, defined, key to spp., p. 244, *betulae* p. 247 figs., *scolyti* on *Scotylus scolytus* p. 249 figs., *dendroctoni* p. 249 figs., *goffarti* under wing-cases of *Dryocoetes villosus*, p. 252 figs., *tuerkorum* under wing-cases of *Pityokteines curvidens*, p. 252 figs., **spp. nov.,** *cunicularii* (Fuchs) under wing-cases of *Hylastes*, p. 250 figs., *typographi* (Fuchs) on *Ips*, pl 254 figs., *amitini* (Fuchs) p. 255, Germany, **Rühm,** W. (**1**).—*E. zwolferi* **sp. nov.** associating with *Sinodendron cylindricum*, Germany, p. 80 figs., **Rühm,** W. (**3**).

Eleutherolaimus Filipj., key to spp. p. 48, *stenostoma* (De Man) p. 49 figs., *obtusicaudatus* Allg. p. 50 figs., Chile, **Wieser,** W. (**1**).

Elzalia **gen. nov.,** Monhysteridae, defined, p. 454, type : *floresi* **sp. nov.,** Brazil, p. 454 figs., **Gerlach,** S. A. (**1**).

Enchodelus brasiliensis **sp. nov.,** Brazil, p. 132 figs., **Meyl,** A. H. (**1**).

Enoploides brunettii var. *vectis* **var. nov.,** Brazil, p. 426 figs., **Gerlach,** S. A. (**1**).

Enoplolaimus distortus **sp. nov.,** Brazil, p. 426 figs., **Gerlach,** S. A. (**1**).

Entaphelenchus **gen. nov.,** Aphelenchoidea, defined, p. 103, key to spp., p. 104, type : *oxyteli* in *Oxytelus piceus*, p. 104 figs., *platystethi* in *Platystethus* spp., p. 106 figs., *bledii* in *Bledius opacus*, p. 107, figs., *aliantae* in *Atheta* (*Alianta*) *incana*, p. 108 figs., *xantholini* in *Xantholinus* spp., p. 109 figs., *philonthi* in *Philonthus* spp., p. 110, figs., **spp. nov.,** Germany, **Wachek,** F.

Eufilaria sergenti Seurat in areolar tissue of *Garrulax leucophus*, London Zoo, p. 33, **Yeh,** L. S. (**3**).

Euryconema Chitw. redefined, p. 33, **Basir,** M. A.

Falcaustra Lane, systematic review, p. 249, *caballeroi* **sp. nom. nov.** pro *Dibulbiger longispiculus* Caballero (1935), p. 255, *mexicana* **sp. nom. nov.** pro *Spironoura cryptobranchi* sensu Bravo & Caballero (1940) *nec* Walton (1930), *nec* Mackin (1936), p. 255, **Chabaud,** A. G. & **Golvan,** Y. J. (**1**).—*F. golvani* **sp. nov.** in *Racophorus* sp., Madagascar, p. 386 figs., **Chabaud,** A. G. & **Brygoo,** E. R.

Filaroidea, Host-parasite list, p. 169, **Lopez-Neyra,** C. R.

Filostrongylus **gen. nov.,** Metastrongylidae, type : *peramelis* **sp. nov.** in bronchioles of *Isoodon obesulus* and *Perameles nasuta*, Australia, p. 77 figs., **Mackerras,** M. J. (**1**).

Fontonema Chitwood redefined p. 73, **Basir,** M. A.

Fuchsia Micoletzky, systematics, p. 388, defined, p. 389, key to spp., p. 390, *hylurginophila* on *Hylurgus ligniperda*, p. 393, figs., *thalenhorsti* on *Hylastes* spp., p. 395 figs., *palliati* in *Hylurgops palliatus*, p. 397 figs., *dryocoeti* on *Dryocoetes autographus*, p. 397 figs., *eutelesa* on *Pityokteines curvidens*, p. 399 figs., *weingaertnerae* in frass of various bark-beetles, p. 402 figs., **spp. nov.,** *buetschlii acuminati* **subsp. nov.** on *Ips acuminatus*, p. 402, Germany, **Rühm,** W. (**1**).

Galebia Chitw. redefined p. 20, **Basir,** M. A.

Galebiella basiri **sp. nov.** in *Hydrous ater*, Brazil, p. 492 figs., **Kloss,** G. R.

Ganguleterakis altaica (Spaul) in *Tetraogallus himalayensis*, Kirgizia, Russia, p. 88 fig., **Gagarin,** V. G. (**1**).

Gilesia **gen. nov.,** Trichostrongylineae, pp. 182, 184, type : *G.* [*Trichostrongylus*] *colubriformis* (Giles) pp. 181, 185, to incl. also *ovis* **sp. nov.** in *Ovis aries*, Pakistan, p. 186 fig., [*T.*] *longispicularis* and [*T.*] *pietersi*, p. 181, **Sarwar,** M. M. (**2**).

Gireterakis Lane redefined, p. 141, *girardi* Lane in *Hystrix cristata*, p. 141, fig., **Inglis,** W. G.

Goodeyus ulmi scolytus **subsp. nov.** on *Scolytus ratzeburgi*, Germany, p. 361, **Rühm,** W. (**1**).

Grosspiculagia Orloff defined, p. 178, *trifida* (Guille, Marotel & Panisset) redescr. from *Ovis aries*, Pakistan, p. 178 fig., **Sarwar,** M. M. (**2**).

Gruhneria **gen. nov.,** Ostertagiinae, defined, p. 176, type : *G.* [*Ostertagia*] *gruhneri* (Skrj.), p. 177, to incl. also [*O.*] *bubalis* **sp. nov.** in *Bubalis bubalis*, Pakistan, p. 177 figs., **Sarwar,** M. M.

Gryllocola Basir a syn. of *Binema* p. 54, **Basir,** M. A.

Gryllophila Basir redefined p. 34, *G.* [*Thelastomum*] *skrjabini* (Sergiev) n. comb., (syn. : *G. gryllophila* Basir, *Neyraiella neyrae* Serrano Sánchez) p. 35, **Basir,** M. A.

Habronema leptoptera (Rud.) in *Accipiter nisus, Falco subbuteo*, p. 275 figs., *spinosa* Gendre in *Buteo lagopus, Accipiter gentilis, Buteo buteo, Falco tinnunculus, Falco vespertinus, F. subbuteo*, p. 276 fig., **Furmaga,** S. (**2**).

Halichoanolaimus robustus Bast. p. 106 figs., *ovalis* Ditlevs. p. 107 figs., S. Australia, **Mawson,** P. M. (**3**).

Hamatospiculum africanum **sp. nov.** in *Bubo africanus cinerascens*, Belgian Congo, p. 9 figs., **Vuylsteke,** C.—*H.* sp. innom. in *Asio f. flammeus*, Canada, p. 216, **Mawson,** P. M. (**2**).

Hammerschmidtiella Chitw. redefined p. 38, **Basir,** M. A.

Harentinema **gen. nov.,** Ascaridina *incertae sedis*, defined p. 395, type : *ambocaeca* **sp. nov.** in *Racophorus* sp., Madagascar, p. 390 figs., **Chabaud,** A. G. & **Brygoo,** E. R.

Helicotylenchus Steiner defined, p. 10, key to spp., p. 11, **Golden,** A. M. (**1**).—*H. nannus* Steiner, male descr., Brazil, p. 136 fig., **Carvalho,** J. C. (**2**).

Heligmosomum aberrans (Roe) redescr. from *Apodemus sylvaticus, A. agrarius, A. flavicollis*, p. 33 figs., *skrjabini* (Schulz) from *Apodemus sylvaticus*, p. 34 figs., *polygyrum* (Duj.) from *Apodemus agrarius, Microtus arvalis*, p. 37 figs., Poland, **Furmaga,** S. (**1**).

Hemicriconemoides **gen. nov.,** Criconematidae, defined p. 80, key to spp., p. 84, type : *wessoni* **sp. nov.** from roots of *Myrica cerifera*, Florida, p. 81 figs., to incl. also *biformis* **sp. nov.** from roots of *Quercus virginiana*, Florida, p. 81 figs., *floridensis* **sp. nov.** from *Pinus elliotti*, Florida, p. 83 figs., **Chitwood,** B. G. & **Birchfield,** W.

Heterakidae Raill. & Henry, systematic importance of head-structure, p. 133, **Inglis,** W. G.

Heterakis spumosa (Schn.) redescr. as *Ganguleterakis s.* from *Apodemus agrarius*, Poland, p. 42 figs., **Furmaga,** S. (**1**).—*H. gallinae* (Gmel.) in *Phasianus colchicus*, Kirgizia, Russia, p. 87 fig., **Gagarin,** V. G. (**1**).

Heterakoidea **superfam. nov.** to incl. Heterakidae and Ascaridiidae, p. 250, **Chabaud,** A. G. (**2**).

Heterodera major (O. Schmidt) correct name for cereal root eelworm, p. 149, **Franklin,** M. T. (**1**).

Heterotylenchus Bovien, defined, p. 84, key to spp., p. 85, *bovieni* in *Bembidion* spp., p. 85 figs., *wülkeri* in *Bembidion articulatum*, p. 89 figs., *stammeri* in *Clivina fossor*, p. 91 figs., **spp. nov.,** Germany, **Wachek,** F.

Hoplolaimus proporicus **sp. nov.** on roots of *Elaeis guineensis*, Brit. Cameroons, p. 108 figs., **Goodey,** J. B.—*H. coronatus* Cobb, sexual dimorphism of head, p. 20 figs., **Krueger,** H. J. & **Linford,** M. B.

Howardula Cobb, defined, p. 34, key to spp., p. 35, *acarinorum* **sp. nov.** in body-cavity of *Parasitus fucorum* and *Poecilochirus necrophori*, Germany, p. 36 figs., **Wachek,** F.

Hystrignathus Leidy redefined p. 58, key to spp., p. 60, *H.* [*Lepidonema*] *tarda* (Artigas) n. comb. p. 59, **Basir,** M. A.—*H. spinosus* in *Passalus punctiger punctatissimus* p. 299 figs., *inflatus* in *P p p*, p 300 figs , **spp. nov.,** Brazil, **Travassos,** L & **Kloss,** G R. (**1**).—*H. heliae* in int. of *Paxillus leachii*, p. 476 figs., *cobbi* in int. of *P. l.*, p. 477 figs., **spp. nov.,** Brazil, **Travassos,** L. & **Kloss,** G. R. (**2**).

Ichthyascaris Wu a syn. of *Raphidascaris* Raill. & Henry, p. 237, **Hartwich,** G. (**2**).

Iheringascaris Pereira a syn. of *Thynnascaris* Dollfus, p. 240, **Hartwich,** G. (**2**).

Ingenia **gen. nov.,** Tripyloididae, defined, p. 453, type : *mirabilis* **sp. nov.,** Brazil, p. 453 figs., **Gerlach,** S. A. (**1**).

Isomermis **gen. nov.,** Mermithidae, pp. 128, 149, type : *herculanensis* **sp. nov.,** Roumania, pp. 128, 149, figs., **Coman,** D.

Johnstonema **gen. nov.,** Filariidae, pp. 200. 201, type : *J.* [*Dipetalonema*] *annulipapillatum* (Johnst. & Mawson) n. comb. from *Macropus* and *Onychogale* spp., p. 202, **Yeh,** L. S. (**4**).

Johnstonia **gen. nov.** [*nec* Quatref., 1849, *nec* Jay, 1850, *nec* Fuhrmann, 1920], Thelastomatidae, defined p. 16, type : *J.* [*Thelastomum*] *alatum* (Johnst.) from larva of *Cacachroa decërticata*, p. 16 figs., to incl. also *J.* [*Oxyuris*] *myriapodicola* (Skrj.) p. 17, *J.* [*Thelastomum*] *crimense* (Skrj.) p. 17, and *J.* [*Oxyuris*] *sphaeropoei* (Parona) p. 18, **Basir,** M. A.

Kathlaniinae Lane, constitution, differential table of genera, p. 248, **Chabaud,** A. G. & **Golvan,** Y. J. (**1**).

Labiostrongylus kingi **sp. nov.** in *Macropus major*, N.S.W., p. 3 figs., **Mawson,** P. M. (**1**).

Lauroia dasypi **sp. nov.** in int. of *Dasypus novemcinctus mexicanus*, Mexico, p. 4 figs., **Flores Barroeta,** L. (**1**).

Leidynema Schwenk redefined p. 46, key to spp. 49, **Basir,** M. A.

Leidynemella Chitw. & Chitw. redefined p. 43, key to spp., p. 45, *L.* [*Oxyuris*[*socialis* (Leidy) n. comb., p. 44, **Basir,** M. A.

Lepidonema Cobb, redefined p. 60, **Basir,** M. A.—*L. brasiliensis* **sp. nov.** of *Passalus punctiger punctatissimus*, Brazil, p. 297 figs., **Travassos,** L. & **Kloss,** G. R. (**1**).

Linhomoeidae, key to genera, p. 38, **Wieser,** W. (**1**).

Linhomoeus Bast., key to genera, p. 50, *macquariensis* Allg. transf. to *Paralinhomoeus*, *triadenophorus* Steiner a syn. of *Synonema braziliense* Cobb, p. 53, *iniquus* **sp. nov.** p. 53 figs., *hirsutus* Bast. p. 54 figs., *buculentus* **sp. nov.** p. 54 figs., Chile, **Wieser,** W. (**1**).

Linstowiella **gen. nov.** [*nec* Szidat, 1933], Thelastomatidae, defined p. 66, type : *L.* [*Oxyuris*] *lanceolata* (Linst.) n. comb. from insect, p. 66, **Basir,** M. A.

Litomosa vite (Krepkogorskaya, 1933) transf. to *Dipetalonema*, p. 342, **Chabaud,** A. G. (**4**).

Longistriata beta (Trav.) redescr. from *Microtus raticeps*, Poland, p. 38 figs., **Furmaga,** S. (**1**).

Macropostrongylus lasiorhini **sp. nov.** in *Lasiorhinus latifrons*, S. Australia, p. 4 figs., **Mawson,** P. M. (**1**).

Manunema **gen. nov.,** Halaphanolaimidae, defined p. 451, type : *proboscidis* **sp. nov.,** Brazil, p. 451 figs., **Gerlach,** S. A. (**1**).

Marshallagia skrjabini **sp. nov.** in abomasum of *Capra cylindricornis* and *Rupicapra rupicapra caucasica*, Belokan region, Azerbaidzhan, Russia, p. 643 figs., **Asadov,** S. M. (**1**).—*M. dentispicularis* **sp. nov.** in abomasum of *Capra hircus*, Azerbaidzhan, Russia, p. 735 figs., **Asadov,** S. M. (**2**).

Mastophorus muris (Gmel.) redescr. from *Apodemus sylvaticus*, *Mus musculus*, Poland, p. 41 fig., **Furmaga,** S. (**1**).

Megalobatrachonema campanae **sp. nov.** in stom. of *Triton vulgaris* and *T. alpestris*, France, pp. 243, 244, figs., **Chabaud,** A. G. & **Golvan,** Y. J. (**1**).

Meloidogyne Goeldi, reviewed, list of spp., p. 387 figs., **Franklin,** M. T. (**3**).—*M. hapla* Chitw. p. 180 figs., *arenaria* (Neal) p. 181 figs., *arenaria* subsp. *thamesi* Chitw. p. 182 figs., *incognita* (Kof. & White) and var. *acrita* Chitw. p. 182 figs., *javanica* (Treub) p. 183 figs., among plant-roots, Germany, **Goffart,** H. (**3**).

Mermis racovitzai **sp. nov.,** pp. 134, 149 figs., var. *clujensis* **var. nov.,** larva in *Formica fusca,* pp. 138, 150 figs., Rumania, **Coman,** D.

Mesacanthion rigens p. 427 figs., *proximum* p. 427 figs., **spp. nov.,** Brazil, **Gerlach,** S. A. (**1**).—*M. africanum* **sp. nov.,** Belgian Congo, p. 4 figs., **Gerlach,** S. A. (**2**).

(*Mesotheristus*) **subgen. nov.,** *Theristus,* defined p. 91, type : *T.* (*M.*) *setosus* (*Buetschli*), p. 91, **Wieser,** W. (**1**).

Metabronema magna Taylor in *Caranx speciosus,* Queensland, p. 177 figs., **Mawson,** P. M. (**4**).

Metachromadora spectans **sp. nov.,** Brazil, p. 442 figs., **Gerlach,** S. A. (**1**).

Metalinhomoeus De Man (syn. *Monhysteriella* Kreis), key to spp., p. 43, *meridionalis* Cobb transf. to *Paralinhomoeus, microsetosus* prob. a *Paralinhomoeus,* and *pilosus* Stekh. a syn. of *Linhomoeus hirsutus* Bast., p. 44, *filiformis* (De Man) p. 44 figs., *retrosetosus* **sp. nov.** p. 46 figs., Chile, **Wieser,** W. (**1**).

Metangusticaecum Mosgowoi a syn. of *Terranova* Leip. & Atkinson, p. 234, **Hartwich,** G. (**2**).

Metanisakis Mosgowoi a syn. of *Eustoma,* p. 228, **Hartwich,** G. (**2**).

(*Metaparasitylenchus*) **subgen. nov.,** *Parasitylenchus,* defined, p. 45, key to spp., p. 46, type : *P.* (*M.*) *telmatophili* **sp. nov.** in gody-cavity of *Telmatophilus* spp., p. 49, figs., *cryptophagi* in *Cryptophagus umbratus,* p. 46 figs., *mycetophagi* in *Mycetophagus piceus,* p. 48 figs., *tetropii* in *Tetropium* spp., p. 53 figs., *strangaliae* in *Strangalia* spp., p. 54 figs., *rhizophagi* in *Rhizophagus bipustulatus,* p. 56 figs., *helmidis* in *Helmis, Latelmis, Riolus* spp., p. 58 figs., **spp. nov.,** Germany, **Wachek,** F.

Metathelazia skrjabini Sadikhov, 1953, in *Vulpes vulpes,* Azerbaidzhan, Russia, p. 128, **Sadikhov,** I. A.

Metoncholaimus brevispiculum **sp. nov.,** S. Australia, p. 101 figs., **Mawson,** P. M. (**3**).

Microfilaria fallisi Brinkm. a prob. syn. of *Aproctella stoddardi,* p. 25, **Anderson,** R. C. (**2**).

Microlaimus formosus, p. 440 figs., *spinosus* p. 440 figs., **spp. nov.,** Brazil, **Gerlach,** S. A. (**1**).

Mirolaimus **gen. nov.,** Nygolaiminae, defined p. 314, type : *mirus* **sp. nov.** in roots of barley, p. 314 figs., Hungary, **Andrássy,** I. (**2**).

Mirzaiella Basir redefined p. 74, **Basir,** M. A.

Monhystera Bast., key to spp., p. 99, *britannica* (Wieser) (= *M. refringens* var. *britannica* Wieser), p. 103 figs., *parva* (Bast.) p. 104 figs., *magallanica* **sp. nov.** p. 104 figs., Chile, **Wieser,** W. (**1**).

Monhysteridae, keys to genera of subfamilies Monhysterinae and Xyalinae pp. 63–65, **Wieser,** W. (**1**).

Molinostrongylus pseudornatus **sp. nov.** in int. of unnamed bat. N. Rhodesia, p. 123 figs., **Yeh,** L. S. (**6**).

Mononchus risoceiae **sp. nov.,** Brazil, p. 129 figs., **Carvalho,** J. C. (**1**).—*M. coronatus* **sp. nov.,** Brazil, p. 148 fig., **Carvalho,** J. C. (**3**).

Monopetalonema alcedinis (Rud.) in *Megacercyle a. alcyon,* Canada, p. 216, **Mawson,** P. M. (**2**).

Monoposthia ilhabelae **sp. nov.,** Brazil, p. 442 figs., **Gerlach,** S. A. (**1**).

Mylonchulus subsimilis Cobb, Brazil, p. 126 figs., **Meyl,** A. H. (**1**).

Murshidia Lane, systematic review, key to spp., p. 98 figs., **Chabaud,** A. G. (**3**).

Nannolaimus complicatus **sp. nov.,** Brazil, p. 437 figs., **Gerlach,** S. A. (**1**).

Nannonchus amazonicus **sp. nov.,** Brazil, pl 451 figs., **Gerlach,** S. A. (**1**).

Necator muridis (Parona) redescr. from *Otomys irroratus,* p. 3 figs., **Biocca,** E. (**2**).

Nemella Cobb, key to spp., p. 29, *metocellata* **sp. nom. nov.** pro *Onchulella ocellata* Cobb, p. 29, *ocellata* Cobb, Chile, p. 30 figs., **Wieser,** W. (**1**).

Neoascaris apodemi **sp. nov.** in sm. int. of *Apodemus peninsulae,* Korea, p. 205 figs., **Olsen,** L. S.—*N.* Trav. redefined p. 355, *mackerrasae* **sp. nov.** in sm. int. of *Rattus assimilis,* Queensland, p. 350 figs., **Sprent,** J. F. A. (**1**).

Neocucullanellus apharei Yamag. transf. to *Neocucullanus,* p. 456, **Campana-Rouget,** Y.

Neodiplogaster Cobb, systematics, p. 403, defined, p. 404, key to spp., p. 405, **Rühm,** W. (**1**).

(*Neodiplogasteroides*) **subgen. nov.,** *Diplogasteroides*, p. 377, type : *D.* (*N.*) *leuckarti* (Fuchs) on *Hylobius abietus*, p. 378 figs., Germany, **Rühm,** W. (**1**).

Neotonchus compactus **sp. nov.,** Brazil, p. 439 figs., **Gerlach,** S. A. (**1**).

Neotylenchus dendrophilus **sp. nov.** on *Picea excelsa* Germany, p. 155 figs., **Rühm,** W. (**1**).

Neyraiella Serrano Sánchez syn. of *Gryllophila*, p. 34, **Basir,** M. A.

Nothotylenchus drymocolus **sp. nov.** in frass of *Ips suturalis*, Germany, p. 169 figs., **Rühm,** W. (**1**).

Nygmatonchus scriptus Cobb, Belgian Congo, p. 11 figs., **Gerlach,** S. A. (**2**).

Nygolaimus bisexualis aff. Thorne, Brazil, p. 132 figs., **Meyl,** A. H. (**1**).

Odontophora Bütschl., constitution, key to spp., p. 3, *pacifica* Allg. p. 5 figs., *furcata* **sp. nov.** p. 7 figs., *peritricha* **sp. nov.** p. 7 figs., Chile, **Wieser,** W. (**1**).—*O. urothrix* **sp. nov.,** Brazil, p. 445 figs., **Gerlach,** S. A. (**1**).

Ogma multisquamatum Kirjanova, *minuta* Kirj. (p. 59), *coronatum* Stekhoven & Teunissen, *lentiforme* S. & T., *tripius* S. & T., *tricodon* S. & T. (p. 60) and *zernovi* Kirj. (p. 61) transf. to *Criconema*, **Chitwood,** B. G. (**2**).

Ollulanus tricuspis (Leuck.) redescr. from cats, Rome, **Bronzini,** E.

Omicronema clavulatum **sp. nov.,** Brazil, p. 458 figs., **Gerlach,** S. A. (**1**).—*O. litorium* (?) Cobb, Chile, p. 107 figs., **Wieser,** W. (**1**).

Oncholaimus manilius **sp. nov.,** Brazil, p. 429 figs., **Gerlach,** S. A. (**1**).—*O. oxyuris* Ditlevs., Belgian Congo, p. 7 figs., **Gerlach,** S. A. (**2**).

Ophidascaris arndti Sprehn redescr. from stom. of *Xenodon merremii*, Brazil, p. 17 fig., **Teixeira de Freitas,** J. F. (**1**).

Ostertagia Ransom, defined, p. 163, *ostertagi* (Stiles) in *Bos indicus*, *Capra hircus*, p. 164 figs., *muraschkinzevi* Schulz & Kad. in *C. hircus*, *Ovis aries*, p. 165 fig., *mossi* Dikmans in *Cervus* sp., *O. aries*, p. 167 figs., Pakistan and India, **Sarwar,** M. M. (**2**).—*O.* (*O.*) *mossi* (Dikmans) in cattle and goats, Sardinia, p. 230 figs., **Lai,** M.—*O.* (*Grosspiculagia*) *belockani* **sp. nov.** in abomasum of *Rupicapra rupicapra caucasica* and *Capra cylindricornis*, Azerbaidzhan, Russia, p. 875 figs., **Asadov,** S. M. (**3**).

Ostertagiidae **fam. nov.,** defined, p. 158, **Sarwar,** M. M. (**2**).

Ostertagiinae **subfam. nov.,** defined, p. 159, **Sarwar,** M. M. (**2**).

Oxyspirura Drasche redefined p. 183, *anacanthura* (Molin) in *Ramphastos culminatus* and *Guira guira* p. 183, *brevisubulata* (Molin) in *Nyctidromus albicollis* p. 183, *cameroni* **sp. nov.** in *Tityra cayana* p. 183 figs., *petrowi* Skrj. in *Setopagis parvula* p. 186, *sygmoidea* (Molin) in *Ramphastos cuvieri* p. 186, Brazil, **Strachan,** A. A.—*O. schulzi* Skrj. in *Alectoris graeca*, Kirgizia, Russia, p. 97 fig., **Gagarin,** V. G. (**1**).—*O.* (*Yorkeispirura*), key to spp. of subgenus, p. 438, *O.* (*Y.*) *pusillae* **sp. nov.** in eye of *Sitta p. pusilla*, Georgia, U.S.A., p. 436 figs., **Wehr,** E. E. & **Hwang,** J. C. (**1**).—*O. hispanica* **sp. nov.** in orbital sockets of *Otis tarda*, London Zoo, p. 279 figs., **Yeh,** L.-S. (**8**).

Oxystomina acuta **sp. nov.,** Brazil, p. 422 figs., **Gerlach,** S. A. (**1**).—*O. affinis* Gerlach, Belgian Congo, p. 3 figs., **Gerlach,** S. A. (**2**).

Oxyuridae Cobbold from Arthropods reviewed, p. 71, **Basir,** M. A.

Oxyuris socialis (Leidy) transf. to *Cephalobium*, p. 28, **Travassos,** L. & **Kloss,** G. R. (**3**).

Pabagrobelus Thorne defined p. 272, *stammeri* **sp. nov.** in frass of bark-beetles, Germany, p. 274 figs., **Rühm,** W. (**1**).

Panagrolaimus Fuchs, systematics, p. 277, defined, key to spp., 0. 279, *scheucherae* on *Scolytus* spp., p. 285 figs., *fuchsi* on *Hylurgops palliatus*, p. 289 figs., *moehni* on *Dryocoetes villosus*, p. 292 figs., *wichmanni* in *Ips* spp., p. 294 figs., *goodeyi* in frass of *Phloeophthorus rhododactylus* p. 297 figs., **spp. nov.,** Germany, **Rühm,** W. (**1**).—*P. thienemanni* Hirschm. a syn. of *hygrophilus* Bassen, p. 352, **Hirschmann,** H.

Paracanthonchus cochlearis p. 431 figs., *batidus* p. 432 figs., *digitatus* p. 432 figs., **spp. nov.**, Brazil, **Gerlach,** S. A. (**1**).

Parachromagasteriella Allg. redefined p. 16, *anellifera* **sp. nov.**, Chile, p. 16 figs., **Wieser,** W. (**1**).

Paracyatholaimoides serpens **sp. nov.**, Brazil, p. 434 figs., **Gerlach,** S. A. (**1**).

Parahistiocephalus Belopolskaja a syn. of *Ancyracanthopsis* p. 97, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Paralinhomoeus De Man, key to spp., p. 56, *ilenensis* Allg., *bocki* Stekh. and *brevicaudatus* Stekh. transf. *Linhomoeus*, p. 57, *pachyamphis* **sp. nov.** p. 57 figs., *strigosus* **sp. nov.** p. 58 figs., *ordinarius* **sp. nov.** p. 58 figs., Chile, **Wieser,** W. (**1**).—*P. conspicuus* **sp. nov.**, Brazil, p. 453 figs., **Gerlach,** S. A. (**1**).

Paramermis transsylvanica **sp. nov.**, Rumania, pp. 142, 150 figs., **Coman,** D.

Paramonhystera Steiner, keys to spp of subgenera *Paramonhystera* and *Leptogastrella* pp 66, 68, (*P*) *biforma* **sp. nov.**, p 68 figs, (*P*) *macrocephala* Steiner p 69 figs, (*P.*) *proteus* **sp. nov.** p. 69 figs., (*L.*) *pellucida* (Cobb) p. 71 figs., sp. innom. p. 71 figs., Chile, **Wieser,** W. (**1**).—*P. elliptica* Filipj., Belgian Congo, p. 12 figs., **Gerlach,** S. A. (**2**).

Paranisakiopsis Yamag. a syn. o *Paranisakis* Baylis, p. 238, **Hartwich,** G. (**2**).

Parapharyngodon Chatterji defined and reviewed, comparative table of spp., *alvarengai* **sp. nov.** in int. of *Mabuya maculata*, Brazil, p. 41 figs., **Teixeira de Freitas,** J. F. (**4**).—*P. senifaciecaudus* **sp. nov.** in int. of *Liolaemus lenzi*, Bolivia, p. 451 figs., **Teixeira de Freitas,** J. F. (**3**).

Parasitaphelenchinae **subfam. nov.**, Aphelenchidae, to incl. *Peraphelenchus* Wachek, *Entaphelenchus* Wachek, *Ectaphelenchus* Fuchs and *Parasitaphelenchus* Fuchs, p. 243, defined, p. 244, **Rühm,** W. (**1**).

Parasitaphelenchus Fuchs, defined, key to spp., p. 256, *papillatus* Fuchs in *Myelophilus piniperda*, p. 259 figs., *oldhami* **sp. nov.** in *Scolytus* spp., p. 260, *ateri* Fuchs in *Hylastes ater*, p. 261 figs., *poligraphi* Fuchs in *Polygraphus*, p. 262 figs., *acuminata* **sp. nov.** in *Ips acuminatus*, p. 263 figs., *strongylocephalus* **sp. nov.** in *Pityogenes* spp., p. 264 figs., Germany, **Rühm,** W. (**1**).

Parasitorhabditis Fuchs, systematics, p. 315, defined, p. 316, key to spp., p. 317, *dendroctoni* on *Dendroctonus micans*, p. 323 figs., *opaci* on *Hylastes* spp. p. 327 figs., *crypturgophila* on *Crypturgus* spp., p. 332 figs., *cryphalophila* on *Cryphalus piceae*, p. 333 figs., *villosi* on *Dryocoetes villosus*, p. 336 figs., **spp. nov.**, Germany, **Rühm,** W. (**1**).

Parasitylenchoides **gen. nov.**, Tylenchoidea, defined, p. 68, key to spp., p. 69, type : *steni* in body-cavity of *Stenus* spp., pp. 68, 78, figs., *anobii* in *Anobium* spp., p. 70 figs., *wichmanni* in *Plegaderus* spp., p. 72 figs., *paromali* in *Micromalus* (*Paromalus*) *parallelepipedus*, p. 74 figs., *ditomae* in *Ditoma crenata*, p. 75 figs., *paederi* in *Paederus litoralis*, p. 77 figs., *sciodrepae* in *Sciodrepa watsoni*, p. 80 figs., *rheocharae* in *Aleochara* (*Rheochara*) *spadicea*, p. 81 figs., *körneri* in *Oxytelus tetracarinatus*, p. 83 figs., **spp. nov.**, Germany, **Wachek,** F.

Parasitylenchus (*Metaparasitylenchus*) *oschei* **sp. nov.** in *Rhizophagus ferrugineus*, Germany, p. 129 figs., **Rühm,** W. (**1**).—*P.* Micoletsky, defined, p. 43, key to subgenera, p. 45, **Wachek,** F.

(*Parasitylenchus*) **subgen. nov.**, *Parasitylenchus*, defined p. 105, spp. defined p. 106, type : *Parasitylenchus cryphali* (Fuchs) in *Cryphalus picae*, pp. 105, 117 figs., (*P.*) *ligniperdae* (Fuchs) in *Hylurgus*, p. 110, (*P.*) *hylastis* (Wülker) in *Hylastes* p. 111 figs., (*P.*) *wuelkeri* **sp. nov.** in *Dendroctonus micans*, Germany, p. 115 figs., (*P.*) *betulae* **sp. nov.** in *Scolytus ratzeburgi*, Germany, p. 116 figs., (*P.*) *scolytii* Oldham (syn. *secundus* (Fuchs)) in *Scolytus*, p. 116 (*P.*) *cinerei* (Fuchs) (syn. *dispar pusilli* Fuchs) in *Crypturgus*, p. 120 figs., (*P.*) *pityophthori* **sp. nov.** in *Pityophthorus micrographus*, Germany, p. 122 figs., (*P.*) *chalcographi* (Fuchs) in *Pityogenes*, p. 122, **Rühm,** W. (**1**).

Paraspidoderinae **subfam. nov.**, Aspidoderidae, for *Paraspidodera* Trav., p. 140, **Inglis,** W. G.

Paratripyloides crumina **sp. nov.**, Chile, p. 36 figs., **Wieser,** W. (**1**).

Paraxonolaimus filiformis and *limalis* transf. to *Axonolaimus* p. 4, *impar*

(Savelj.) to *Synodontium* pp. 3, 4, **Wieser,** W. (**1**).

Pelecitus anhingae in stom. of *Anhinga r. rufa* p. 15 figs., *polamaetus* in *Polamaetus bellicosus*, p. 16, *ardeae* in foot of *Ardea goliath*, p. 17, **spp. nov.** Belgian Congo, **Vuylsteke,** C.

Pelodera lambiensis (Maupas) in stem of barley, Hungary, p. 308, *P.* (*Cruznema*) *labiata* (Volk) n. comb., p. 309, **Andrássy,** I. (**2**).

Peraphelenchus **gen. nov.,** Aphelenchoidea, defined, p. 101, type : *necrophori* **sp. nov.** in body-cavity of *Necrophorus* spp., Germany, p. 101 figs., **Wachek,** F.

Periplaneticola Basir a syn. of *Binema*, p. 54, **Basir,** M. A.

Phanodermopsis necta **sp. nov.,** Brazil, p. 425 figs., **Gerlach,** S. A. (**1**).

Pharyngodon Dies., differential table of spp., p. 455, *mamillatus* (Linst.) in rectum of *Eumeces algeriensis*, Morocco, p. 449 figs., *paratectipenis* **sp. nom. nov.** pro *tectipenis* Calvente *nec* Gedoelst from *Tarentola*, p. 459, **Chabaud,** A. G. & **Golvan,** Y. J.

Pharyngosetaria Lubimov a syn. of *Desmidocercella* Y. & M., p. 342, **Chabaud,** A. G. (**5**).

Pharyngostrongylus alpha Johnst. & Mawson, redescr. from *Macropus major*, N.S.W., p. 1 figs., **Mawson,** P. M. (**1**).

Phascolostrongylus stirtoni **sp. nov.** in *Lasiorhinus latifrons*, S. Australia, p. 5 figs., **Mawson,** P. M. (**1**).

Phreatomermis **gen. nov.,** Mermithidae, pp. 124, 149, type : *biharica* **sp. nov.,** Rumania, p. 124, 149, figs., **Coman,** D.

Physaloptera (*P.*) *maxillaris* Molin redescr. from stom. of *Mephitis macroura*, Mexico, p. 6 figs., **Flores Barroeta,** L. (**1**).—*P. alata* Rud. in *Accipiter nisus*, *Buteo lagopus*, *A. gentilis*, *Falco subbuteo*, *Circus macrourus*, p. 278 figs., *crosi* Seurat in *A. nisus*, *B. lagopus*, *A. gentilis*, *Buteo buteo*, *Falco tinnunculus*, p. 280 figs., Poland, **Furmaga,** S. (**2**).—*P. lumsdeni* **sp. nov.** in stom. of *Galago crassicaudatus agisymbanus*, Tanganyika, p. 29 figs., **Yeh,** L. S. (**2**).

Plectus thornei **sp. nov.** in pine-dust, Germany, p. 412 figs., **Rühm,** W. (**1**).

Polycaecum Maplest. a syn. of *Multicaecum* Baylis, p. 225, **Hartwich,** G. (**2**).

Polygastrophora octobulba Micoletz., Lake Nicaragua, p. 252, figs., **Gerlach,** S. A. (**3**).—*P. hexabulba* (Filipj.), S. Australia, p. 99 fig., **Mawson,** P. M. (**3**).

Polymorphotylenchus **gen. nov.,** Contortylenchidae, defined, p. 147, type : *Tylenchus dispar typographi* Fuchs, p. 149, **Rühm,** W. (**1**).

(*Polymorphotylenchus*) **subgen. nov.,** *Polymorphotylenchus*, defined p. 149, type : *P.* (*P.*) *typographi* (Fuchs), p. 149 figs., **Rühm,** W. (**1**).

Pontonema ardens **sp. nov.,** Brazil, p. 429 figs., **Gerlach,** S. A. (**1**).

Porrocaecum angusticolle (Molin) in *Accipiter nisus*, *Aquila clanga*, *Buteo lagopus*, *Accipiter gentilis*, *Buteo buteo*, *Falco naumanni*, *Circus aeruginosus*, *Falco subbuteo*, *F. peregrinus*, *Milvus korschun*, *Asio otus*, *Tyto alba*, p. 271 fig., *spirale* (Rud.) in *Asio flammeus*, *Strix aluco*, *Tyto alba*, p. 272 fig., *depressum* (Zed.) in *Aquila chrysaëtus*, *Asio otus*, p. 274 fig., Poland, **Furmaga,** S. (**2**).—*P.* [*Ascaris*] *heteropterum* (Dies.) nov. comb. redescr. from *Theristicus caudatus* (type-host), *T. sp.*, *Phimosus infuscatus nudifrons*, Brazil, p. 215 figs., **Hartwich,** G. (**1**).

Pratylenchus Filipj., morphological variation, *hexincisus* on roots of *Zea mays*, Maryland, p. 160 figs., *subpenetrans* on roots of *Festuca elatior*, Maryland, p. 163 figs., **spp. nov., Taylor,** D. P. & **Jenkins,** W. R.

Probostrongylus **gen. nov.,** Trichostrongylinae, pp. 181, 188, type : *P.* [*Trichostrongylus*] *probolurus* (Raill.), redescr. from *Capra hircus*, *Ovis aries*, *Gazella benetti*, Pakistan, pp. 181, 189, and [*T.*] *hamatus* (Daubn.) pp. 181, 189, **Sarwar,** M. M. (**2**).

Procamallanus sp. innom. in *Sigmanum nebulosus*, Queensland, p. 178 fig., **Mawson,** P. M. (**4**).

Prochromadorella spinosa **sp. nov.,** Brazil, p. 439 figs., **Gerlach,** S. A. (**1**).

Promonhystera **gen. nov.,** Monhysteridae, defined p. 72, type : *faber* **sp. nov.** p. 72 figs., to incl. also *tricuspidata* **sp. nov.** 74 figs., Chile, **Wieser,** W. (**1**).

Proocholaimus megastoma (Eberth), S. Australia, p. 100 figs., **Mawson,** P. M. (**3**).

(*Proparasitylenchus*) **subgen. nov.,** *Parasitylenchus*, defined p. 45, key to spp., p. 59, type : *P.* (*P.*) *platystethi* in *Platystethus cornutus*, p. 60 figs., *medonis* in *Medon ripicola*, p. 61 figs., *boopini* in *Trogophloeus* (*Boopinus*) *fuliginosus*, p. 62 figs., *myrmedoniae* in *Zyras* (*Myrmedonia*) *lugens*, p. 63 figs., *athetae* in *Atheta sordida*, p. 64 figs., *oxyteli* in *Oxytelus complanatus*, p. 66 figs., *trogophloei* in *Trogophloeus bilineatus*, p. 67 figs., **spp. nov.,** Germany, **Wachek,** F.

Protostrongylus frosti Honess from *Ovis canadensis*, descriptive note, p. 116 figs., **Dikmans,** G.

Protrelleta Chitw. redefined p. 62, **Basir,** M. A.

Protrellina Chitw. a syn. of *Protrellus* p. 63, **Basir,** M. A.

Protelloides Chitw. redefined p. 61, **Basir,** M. A.

Protrellus Cobb redefined p. 63, key to spp. p. 65, **Basir,** M. A.

Protylenchus **gen. nov.,** Tylenchoidea, defined, p. 92, type : *heteroceri* **sp. nov.** in body-cavity of *Heterocerus* spp., Germany, p. 93 figs., **Wachek,** F.

Pseudanisakis Yamag. *nec* Layman & Borowkowa, a syn. of *Eustoma* v. Ben, p. 228, **Hartwich,** G. (**2**).

Pseudaproctella **gen. nov.,** Dipetalonematidae, defined p. 32, type-species: *P.* [*Aproctella*] *nuda* (Hamann *nec* YBarra) from *Chaetura pelagica*, p. 32 figs., to incl. also *Carinema dubia* Johnston & Mawson and *C. graucalinum* J. & M., p. 33, **Anderson,** R. C. (**2**).

Pseudonymus Dies. redefined p. 49, key to spp., 52, *P.* [*Galebiella*] *islamabadi* (Basir) n. comb. p. 50. **Basir,** M. A.—*P. vazi* Trav. in *Hydrous ater*, Brazil, p. 491 figs., **Kloss,** G. R.

(*Pseudosteineria*) **subgen. nov.,** *Theristus*, defined p. 88, ty0e : *T.* (*P.*) *anteferens* **sp. nov.,** Chile, p. 88, **Wieser,** W. (**1**).

Pseudothelandros Read, Amrein & Walton a syn. of *Parapharyngodon* p. 32, **Teixeira de Freitas,** J. F. (**4**).

(*Pseudotheristus*) **subgen. nov.,** *Theristus*, defined p. 87, type : *T.* (*P.*) *elegans* Kreis, p. 87, key to spp., **Wieser,** W. (**1**).

Pterygorhabditis **gen. nov.,** Rhabditinae, defined p. 68, type : *pakistanensis* **sp. nov.** in damp straw, E. Pakistan, p. 69 figs., **Timm,** R. W.

Quilonia Lane, systematic review, key to spp., p. 98 figs., **Chabaud,** A. G. (**3**).

Radopholus oryzae (B. de Haan) redescr. from roots of *Caltha palustris*, Germany, p. 352 figs., **Hirschmann,** H.—*R. lavabri* **sp. nov.** on roots of rice, French Cameroons, p. 144 figs., **Luc,** M. (**1**).—*R. gracilis* (de Man) redescr. from roots of *Zizania aquatica*, N. America, **Sanwal,** K. C. (**1**).

Rhabditis monhysteroides Skwarra syn. of *Pelodera lambdiensis* p. 308, *labiata* Volk transf. to *Pelodera* (*Cruznema*) p. 309, **Andrássy,** I. (**2**).—*R.* (*Mesorhabditis*) *quercophila* on *Quercus sessliflora*, p. 346 figs., (*Choriorhabditis*) *acarta* in frass of *Pissodes piceae*, p. 350, figs., **spp. nov.,** Germany, **Rühm,** W. (**1**).

Rhynchonema cinctum Cobb, Chile, p. 74 figs., **Wieser,** W. (**1**).

Rictularia cahirensis Jägersk. and *splendida* Hall regarded as synonyms of *affinis* Jagersk., p. 405, but on p. 410 *R. cahirensis* is indicated as the valid name, **Gibbs,** H. C. (**2**).

Rinadia caucasica **sp. nov.** in abomasum of *Capreolus capreolus*, Azerbaidzhan, Russia, p. 39 figs., **Asadov,** S. M. (**4**).

Rotylenchus Filipj. taxonomy, p. 2, key to spp., p. 11, *buxophilus* **sp. nov.** on roots of *Buxus sempervirens* var. *suffruticosa*, Maryland, p. 6 figs., **Golden,** A. M. (**1**).—*R. iperoiguensis* **sp. nov.,** Brazil, p. 136 fig., **Carvalho,** J. C. (**2**).—*R. boocki* **sp. nov.** on roots of *Anthurium andraeanum*, Brazil, p. 273 figs., **Lordello,** L. G. E. (**2**).

Ryjikovascaris Mosgowoi a syn. of *Raphidascaroides* Yamag., p. 239, **Hartwich,** G. (**2**).

Sabatieria rota **sp. nov.,** Brazil, p. 437 figs., **Gerlach,** S. A. (**1**).—*S. hilarula* De Man, Belgian Congo, p. 10 figs., **Gerlach,** S. A. (**2**).

Salobrellidae de Freitas reduced to subfam. (Salobrellinae) of Spiruridae, pp. 91, 92, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Schistorophinae, key to genera and spp., p. 96, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Schwenkiella **gen. nov.,** Thelastomatidae, defined, p. 13, type : *S.* [*Aorurus*] *robustum* (Leidy) n. comb. from larva of *Osmoderma scabra* and of *Xyloryctes satyrus*, U.S.A., p. 13 figs., to incl. also *S.* [*Bulhõesia*] *icemi* (Schwenk) p. 14 and *S.* [*Oxyuris*] *longicaudata* (Meyer) p. 15, **Basir,** M. A.

Selachinema acanthum **sp. nov.,** Brazil, p. 435 figs., **Gerlach,** S. A. (**1**).

Serratospiculum tendo Nitzsch in *Falco cherrug*, *F. peregrinus*, Poland, p. 284 figs., **Furmaga,** S. (**2**).—*S. congolensis* **sp. nov.** in abdomen of *Butastur rufipennis*, Belgian Congo, p. 12 figs., **Vuylsteke,** C.

Serronema dentata **sp. nov.,** in mushroom-bed, Germany, p. 314 figs., **Paesler,** F. (**1**).

Seurocyrnea Strand a syn. of *Cyrnea* Seurat, p. 590, **Dollfus,** R. P. (**12**).

Severianoia Schwenk redefined p. 30, key to spp., p. 33, *S.* [*Thelastoma*] *glomericola* (Dollfus) n. comb., p. 32, *S.* [*Oxyuris*] *gracilis* (Hammerschm.) n. comb. p. 32, **Basir,** M. A.

Siphinolaimidae, key to genera, p. 20, **Wieser,** W. (**1**).

Siphonolaimus De Man, key to spp., p. 20, *pachyderma* p. 22 figs., *gladiator*, p. 22 figs., *auratus*, p. 24 figs., **spp. nov.,** sp. innom., p. 24 fig., Chile, **Wieser,** W. (**1**).

Sjobergia **gen. nov.,** Ostertagiinae, defined, p. 173, type : *S.* [*Ostertagia*] *lyrata* (Sjob.) in *Bos indicus* p. 174 figs., also incl. [*O.*] *nemorhoedi* (Schulz & Kadenatz.) in *Ovis aries*, *Capra hircus*, *C. sibirica*, p. 175 fig., [*O.*] *kolchida* (Popova) and [*O.*] *arctica* (Mizkew.), p. 174, Pakistan and India, **Sarwar,** M. M. (**2**).

Skrjabinobronema Guschanskaja a syn. of *Ancyracanthopsis* p. 97, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Skrjabinochona Guschanskaja a syn. of *Habronema*, p. 94, **Dollfus,** R. P. & **Chabaud,** D. G. (**1**).

Skrjabinuridae Gnédina, containing *Skrjabinura* and *Seuratinema*, referred to Cucullanidae, p. 91, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Southernia Allg. key to spp., p. 24, *siphonolaimoides* **sp. nov.,** p. 25 figs., Chile, **Wieser,** W. (**1**).

Southerniella Allg. redefined, key to spp., p. 46, *simplex* Allg., Chile, p. 47 figs., **Wieser,** W. (**1**).

Sphaerolaimus Bast., key to spp., p. 59, *campbelli* Allg. p. 60 figs., *pacifica* Allg. p. 62 figs., *megamphis* **sp. nov.** p. 62 figs., Chile, **Wieser,** W. (**1**).

Sphaeronema arenarium Raski transf. to *Trophonema*, p. 86, **Raski,** D. J.

Sphaerularia bombi Duf. redescr. from *Bombus terricola* and *B. ternarius* p. 519 fig., *hastata* **sp. nov.,** in *Dendroctonus monticolae* and *D. pseudotsugae* and in cocoon of hymenopteran parasite *Coeloides dendroctoni* p. 521 figs., Canada, **Khan,** M. A. (**1**).—*S.* Duf. redefined, key to spp., p. 638, *ungulacauda* **sp. nov.** in *Dendroctonus pseudotsugae*, Canada, p. 635 figs., **Khan,** M. A. (**2**).

Sphaeruliariopsis **gen. nov.,** Tylenchoidea, defined, p. 95, type : *stammeri* **sp. nov.** in body-cavity of *Ernobius abietis*, Germany, p. 95 figs., **Wachek,** F.

Spiculopteragia Orloff, review, redefined, p. 4, **Sarwar,** M. M. (**1**).

Spiliphera dolichura de Man, S. Australia, p. 105 figs., **Mawson,** P. M. (**3**).

Spinicauda grimmae **sp. nov.** in large int. of *Scincus officinalis*, Egypt, p. 166 figs., **Belle,** E. A.

Spiramphinema **gen. nov.,** Monhysteridae, defined p. 106, type : *convoluta* **sp. nov.** p. 106 figs., to incl. also *longiseta* **sp. nov.** p. 107 figs., Chile, **Wieser,** W. (**1**).

Spirocamallamus mazabukae **sp. nov.** in int. of "homa fish", N. Rhodesia, p. 126 figs., **Yeh,** L. S. (**7**).

Spirostrongylus Y. & M., systematic note, key to spp., p. 2, *kartana* **sp. nov.** in oesoph. of *Thyogale eugenii*, S. Australia, p. 2 figs., **Mawson,** P. M. (**1**).

Spirurina, classification, p. 88, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Squamofilaria coronata (Rud.) in *Coracias abyssinica*, Belgian Congo, p. 11 figs., **Vuylsteke,** C.

Stadelmannia **gen. nov.,** Ostertagiinae, defined, p. 168, type : *S.* [*Ostertagia*] *circumcincta* (Stadelm.) in *Oris aries*, p. 168 figs., to incl. [*Ostertagia*] *turkestanica* (Petrow & Schachoz.) in *Capra hircus*, p. 170 fig., [*O.*] *trifurcata* (Rans.) in *O. a.*, *C. h.*, *Capra sibirica*, p. 171 fig., [*O.*] *pinnata* (Daubn.) in *O. a.*, p. 171, also [*O.*] *harrisi*, [*O.*] *bakuriani* and [*O.*] *polarica*, p. 168, **Sarwar,** M. M. (**2**).

Stegophorus stellae-polaris (Parona) redescr. from *Fulmarus glacialis*, Greenland, p. 10 figs., **Baer,** J. G. (**1**).

Steineria Micoletzky, systematic note, p. 102, key to spp., p. 103, *pulchra* **sp. nov.,** S. Australia, p. 103 figs., **Mawson,** P. M. (**3**).—*S.* Micoletz., key to spp. p. 75, *pilosa* (Cobb) p. 77 figs., *cobbi* **sp. nov.** p. 77 figs., *pectinata* **sp. nov.** p. 77 figs., Chile, **Wieser,** W. (**1**).—*S. pavo* p. 456 figs., *tripartita* p. 458 figs., **spp. nov.,** Brazil, **Gerlach,** S. A. (**1**).

Stellobronema Guschanskaja a possible syn. of *Hadjelia*, p. 95, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Stellocaronema Gilbert a possible syn. of *Hadjelia*, p. 95, **Dollfus,** R. P. & **Chabaud,** A. G. (**1**).

Sterliadochona ssavini Skrj. [*Metabronema* sp.] in *Salmo trutta*, *S. gairdneri irrideus*, Czechoslovakia, p. 863, **Cákay,** E. (**2**).

Stictylus mycophilus in frass on *Fagus silvatica* p. 163, *pseudobtusus* in frass on *Quercus pedunculata*, p. 165 figs., **spp. nov.,** *pini* (Fuchs) in *Pissodes pini*, p. 167 figs., Germany, **Rühm,** W. (**1**).

Streptocara recta (Linst.) in *Podiceps ruficollis*, S. Australia, p. 6 fig., **Mawson,** P. M. (**1**).

Strongyloidea, reviewed, **Popova,** T. I.

Subulascarididae **fam. nov.,** [Ascaroidea], defined p. 245, **Teixeira de Freitas,** J. F. & **Dobbin,** J. E.

Subulascaris **gen. nov.,** Subulascarididae, defined p. 246, type : *falcaustriformis* **sp. nov.** in int. of *Rana palmipes*, Brazil, p. 246 figs., **Teixeira de Freitas,** J. F. & **Dobbin,** J. E.

Subulura spp. from Otidiformes, key, p. 426, sp. No. 1 in *Choriotis arabs*, Morocco, p. 410 fig., sp. No. 2 in *Neotis cafra*, French Sudan, p. 410 fig., **Dollfus,** R. P. & **Chabaud,** A. (**2**).—*S. suctoria* (Molin) in *Alectoris graeca*, *Perdix daurica*, p. 88 figs., *brumpti* (Lopez-Neyra) in *Phasianus colchicus*, *Coturnix coturnix*, p. 90 fig., *tetraogalli* Spaul in *Tetraogallus himalayensis* p. 90 figs., *skrjabini* (Semenov) in *C. coturnix* p. 90 figs., Kirgizia, Russia, **Gagarin,** V. G. (**1**).—*S. armata* **sp. nov.** in *Coliuspasser m. macroura*, Belgian Congo, p. 3 figs., **Vuylsteke,** C.

Suifunema Chitw. redefined p. 34, **Basir,** M. A.

Sulcascaris **gen. nov.,** [Anisakinae] defined p. 233, type : *Ascaris sulcata* Rud. from *Chelonia* and *Caretta*, p. 234, **Hartwich,** G. (**2**).

(*Sulphuretylenchus*) **subgen. nov.,** *Parasitylenchus*, defined p. 123, key to spp., p. 124, type : *Parasitylenchus sulphureus* (Fuchs) in *Pityogenes*, pp. 123, 127 figs., (*S.*) *fuchsi* **sp. nom. nov.** pro *Parasitylenchus sulphureus poligraphi* Fuchs in *Polygraphus*, p. 125 figs., (*S.*) *escherichi* **sp. nov.** in *Dryocoetes autographus*, Germany, p. 126 figs., (*S.*) *kleinei* **sp. nov.** in *Hylastes ater*, Germany, p. 127 figs., **Rühm,** W. (**1**).

Sychnotylenchus **gen. nov.,** Neotylenchidae, defined, p. 190, type : *intricati* **sp. nov.** in frass of *Scolytus intricatus*, p. 190 figs., *ulmi* **sp. nov.** under wing-cases of *Scolytus scolytus* (type-host) and *S. multistriatus*, p. 192 figs., Germany, **Rühm,** W. (**1**).

Syngamus trachea (Montagu), variation in dentition, p. 264 figs., **Chabaud,** A. G. & **Rougeaux,** M.

Synhimantus laticeps (Rud.) in *Falco tinnunculus*, *F. subbuteo*, Poland, p. 282 fig., **Furmaga,** S. (**2**).

Synonema braziliense Cobb, Chile, p. 48 figs., **Wieser,** W. (**1**).

Syphacia obvelata (Rud.) redescr. from *Apodemus agrarius*, *A. sylvaticus*, *A. flavicollis*, *Microtus arvalis* and *Mus musculus*, Poland, p. 30 fig., **Furmaga,** S. (**1**).—*S. obvelata* (Rud.) and *S. muris* Yamag. differentiated, p. 553 figs., **Hussey,** K. L.—*S. srivastavi* **sp. nov.** in stom. of pigs, India, p. 369, **Sinha,** P. K. (**2**).

Talpicola Basir a syn. of *Binema* p. 54, **Bair,** M. A.

Terschellingia De Man, key to spp., p. 41, *longicaudata* De Man, p. 42 figs., *claviger* **sp. nov.,** p. 43 figs., Chile, **Wieser,** W. (**1**).—*T.* cf. *longicauda* De Man, Belgian Congo, p. 12 figs., **Gerlach,** S. A. (**2**).

Tetrameres timopheevoi Petrov & Tschertcova, 1950, in *Alectoris graeca*, Kirgizia, Russia, p. 95 figs., **Gagarin,** V. G. (**1**).

Thelandros Wedl defined and reviewed, p. 22, comparative table of spp., *echinatus* (Rud.) (p. 34), *cinctus* (Linst.) (p. 35), *annulatus* (Linst.) (p. 35), *micipsae* Seurat (p. 36), *sceleratus* Trav. (p. 37), *sexlabiata* Ortlepp (p. 38), *kasauli* Chatterji (p. 38), *seurati* Sandgr. (p. 39), *rotundus* Malan (p. 39), *almoriensis* Karve (p. 39) and *pseudothaparius* Lucker (p. 40) transf. to *Parapharyngodon*, **Teixeira de Freitas,** J. F. (**4**).—*T. bulbosus* (Linst.) in *Chalcides ocellatus polylepis*, *C. mionecton*, p. 460 figs., *echinatus* (Rud.) (syn. *micipsae* Seurat) in *Tarentola mauritanica*, p. 464 figs., Morocco and France, **Chabaud,** A. G. & **Golvan,** Y. J. (**2**). —*T. cameroni* in large int. of *Chalcides sepoides* and *Scincus* sp., p. 163 figs., *kuntzi* in large int. of *Agama* sp., p. 164 figs., **spp. nov.,** Egypt, **Belle,** E. A.

Thelastoma Leidy reviewed, redefined, p. 4, key to spp., 9, figs., **Basir,** M. A.—*T. bulhõesi dollfusi* **var. nov.** in *Neptunobolus hogei*, Brazil, p. 54 figs., **Ruiz,** J. M. & **Coelho,** E.

Thelastomatidae Trow. redefined, key to genera, p. 2, **Basir,** M. A.

Thelazia Bosc redefined, p. 179, *buteonis* Herde in *Pipile c. cumanensis* p. 179, *campanulata* (Molin) in *Crypturellus s. strigulosus* p. 180, *cholodkowskii* Skrj. in *Otus choliba decussatus* p. 180, *chungkingensis* Hsü in *Mitu mitu* p. 180, *dacelonis* (Breinl) in *Trogon m. melanurus* and *Tinamus t. tao* p. 180, *sicki* **sp. nov.** in *Otus* sp. p. 180, figs., *pittae* Johnston & Mawson p. 181, *spizaëti* **sp. nov.** in *Spizaëtus ornatus*, p. 181 figs., *tonkinensis* Hsü in *Cephalopterus ornatus* p. 182, *anadorhynchi* **sp. nov.** in *Anadorhynchus hyacinthus* p. 182 figs., Brazil, **Strachan,** A. A.—*T. platyptera* **sp. nov.** in eye of *Buteo platypterus*, N. America, p. 125 figs., **Hwang,** J. C. & **Wehr,** E. E.—*T. depressa* Baylis in *Necrosyrtes monachus fileatus* p. 6 figs., *lissotis* **sp. nov.** in nasal cavity of *Lissotis m. melanogaster* p. 7 figs. ,Belgian Congo, **Vuylsteke,** C.

Theristus Bast., key to subgenera (*Theristus*) s. str., (*Penzancia*) De Man, (*Daptonema*) Cobb, (*Pseudotheristus*) **subgen. nov.,** (*Pseudosteineria*) **subgen. nov.,** (*Trichotheristus*) **subgen. nov.,** (*Mesotheristus*) **subgen. nov.** and (*Cylindrotheristus*) **subgen. nov.** p. 80, (*Pseudotheristus*) *exutus* **sp. nov.,** Chile, p. 88 figs., (*Pseudosteineria*) *anticipans* **sp. nov.,** Chile, p. 90 figs., (*Pseudosteineria*) *anteferens* **sp. nov.,** Chile, p. 90 figs., (*M.*) *laxus* **sp. nov.,** Chile, p. 92 figs., (*C.*) *alternus* **sp. nov.,** Chile, p. 95 figs., (*C.*) *dentatus* **sp. nov.,** Chile, p. 95 figs., (*C.*) *gyrophorus* **sp. nov.,** Chile, p. 96 figs., **Wieser,** W. (**1**).—*T. stranus* p. 454 figs., *heterus* p. 456 figs., **spp. nov.,** Brazil, **Gerlach,** S. A. (**1**).

Thubunaea pudica Seurat in *Agama bibroni*, *Lacerta lepida*, *Psammodromus algirus*, *Eumeces algeriensis*, Morocco, p. 466 fig., **Chabaud,** A. G. & **Golvan,** Y. J. (**2**).

(*Thylakolenchus*) **subgen. nov.,** *Polymorphotylenchus*, defined, p. 154, type : *P.* (*T.*) *curvidentis* (Fuchs) in *Pityokteines*, p. 154 figs., **Rühm,** W. (**1**).

Thynnascaris sp. innom. larvae in *Chaetodon* and *Cathydon* spp., Queensland, p. 178 figs., **Mawson,** P. M. (**4**).

Trefusia conica **sp. nov.,** Brazil, p. 423 figs., **Gerlach,** S. A. (**1**).

Tricephalobinae **subfam. nov.,** Cephalobidae, defined, p. 311, to incl. *Tricephalobus* Steiner and *Micronema* Koerner, **Rühm,** W. (**1**).

Tricephalobus Steiner, systematics, p. 311, *franzi* **sp. nov.** on *Quercus sessiliflora*, Germany, p. 312 figs., **Rühm,** W. (**1**).

Trichodorus Cobb reviewed, key to spp., p. 61, *monohystera*, Venezuela, p. 36 figs., *elegans*, Idaho, p. 38 figs., *porosus*, California, p. 40 figs., *atlanticus*, Florida, p. 43 figs., *christiei*, Florida, p. 45 figs., *aequalis*, California, p. 52 figs., *proximus*, Florida, p. 54 figs., *californicus*, California, p. 56 figs.,

nanus, Netherlands, p. 58 figs., *obscurus*, Virginia, p. 59 figs., **spp. nov.**, *pachydermus* Seinhorst redescr. from Holland & U.S.A., p. 47 figs., *primitivus* (de Man) redescr. fr. Holland, p. 49 figs., **Allen,** M. W. (**1**).

Trichostrongylidae Leiper, classification, p. 148, **Sarwar,** M. M. (**2**).

Trichostrongylus Lss. reconstituted, p. 181, **Sarwar,** M. M. (**2**).

(*Trichotheristus*) **subgen. nov.,** *Theristus*, defined p. 91, type : *T.* (*T.*) *mirabilis* (Stekh. & De Con.), p. 91, **Wieser,** W. (**1**).

Trichuris muris (Schrank) redescr. from *Apodemus agrarius*, *A. flavicollis*, *Microtus arvalis*, *Mus musculu*, Poland, p. 40 fig., **Furmaga,** S. (**1**).

Tripyloides De Man, key to spp., p. 35, *vivipara* Cobb referred to *Paratripyloides*, p. 35, *septentrionalis* De Con. & Stekh., Chile, p. 36 figs., **Wieser,** W. (**1**).

Tripyloididae, key to genera, p. 30, **Wieser,** W. (**1**).

Troglomaimus forceps **sp. nov.,** Brazil, p. 434 figs., **Gerlach,** S. A. (**1**).

Trophonema **gen. nov.,** Tylenchulidae, defined, type : *Sphaeronema arenarium* Raski, p. 86, **Raski,** D. J.

Trophotylenchulus **gen. nov.,** Tylenchulidae, defined p. 86, type : *floridensis* **sp. nov.** among roots of *Quercus falcata* (type-host), *Magnolia* sp., *Diospyros* sp., Florida, p. 87 figs., **Raski,** D. J.

Tylaphelenchus **gen. nov.,** Aphelenchidae, type : *leichenicola* **sp. nov.** in frass of various bark-beetles and in moss on trees, Germany, p. 241 figs., **Rühm,** W. (**1**).

Tylenchoidea Chitw. & Chitw., key to genera, p. 29, **Wachek,** F.

Tylencholaiminae Filipjev, key to genera, p. 56, **Chitwood,** B. G. (**1**).

Tylencholaimus parateres **sp. nov.,** Brazil, p. 131 figs., **Meyl,** A. H. (**1**).

Tylenchulidae **fam. nov.,** defined p. 85, to incl. *Tylenchulus*, *Trophotylenchulus*, *Trophonema* and *Sphaeronema*, **Raski,** D. J.

Tylenchus mangenoti **sp. nov.** in roots of *Dorstenia embergeri*, Ivory Coast, p. 329 figs., **Luc,** M. (**2**).—*T.* (*T.*) *filiformis* Bütschl. in frass of Cerambycid larvae, Germany, p. 193 figs., **Rühm,** W. (**1**).

Uncinaria parvibursata **sp. nov.** in *Mellivora ratel*, S. Africa, p. 192 figs., **Le Roux,** P. & **Biocca,** A.

Viscosia papillata Chitw. subsp. *nicaraguensis* **subsp. nov.,** Lake Nicaragua, p. 253 figs., **Gerlach,** S. A. (**3**).

Wymania **gen. nov.,** Anhingofilariinae, defined p. 650, type : *W.* [*Filaria*] *helicina* (Molin) redescr. from brain-cavity of *Anhinga anhinga*, Georgia, U.S.A., p. 650 figs., **Wehr,** E. E. & **Hwang,** J. C. (**2**).

Xiphinemella esseri **sp. nov.** about roots of *Quercus falcata* (type-host), *Acer rubrum* and *Pteris aquilina* v. *latiuscula*, Florida, p. 53 figs., **Chitwood,** B. G. (**1**).

Xyala exigua **sp. nov.,** Chile, p. 109 figs., **Wieser,** W. (**1**).

Zanclophorus Baylis & Daubney, syn. of *Falcaustra* Lane, p. 249, **Chabaud,** A. G. & **Golvan,** Y. J. (**1**).

NEMATOMORPHA

Gordius panighettensis **sp. nov.,** Lombardy, Italy, p. 56 figs., **Sciacchitano,** I.

Pseudogordius **gen. nov.,** Paragordiinae, type : *tanganyikae* **sp. nov.** in man, Tanganyika, p. 317 figs., **Yeh,** L. S. & **Jordan,** P.

ACANTHOCEPHALA

Arhythmorhynchus (?) *distinctus* **sp. nov.,** in *Erolia maritima*, Greenland, p. 13 fig., **Baer,** J. G. (**1**).

Aspersentis austrinus v. Cleave in *Notothenia coriiceps*, *N. cyanobrancha*, Heard Is., p. 141 fig., **Edmonds,** S. J. (**1**).

Bolbosoma capitatum (v. Linst.) in *Globiocephalus melaena*, Australia, p. 78, **Edmonds,** S. J. (**4**).

Centrorhynchus falconis Das larvae in *Ptyas mucosus*, India, p. 71 figs., **Das,** E. N. (**2**).—*C.* Lühe a syn. of *Gordiorhynchus*, p. 413, **Dollfus,** R. P. & **Golvan,** Y. J.—*C. aluconis* (Müller) in *Buteo lagopus*, *Accipiter gentilis*, *Buteo buteo*, *Falco tinnunculus*, *Falco naumanni*, *Circus aeruginosus*, *C. cyaneus*, *Milvus*

migrans, *Strix aluco*, *S. uralensis*, Poland, p. 270 fig., **Furmaga,** S. (**2**).—*C. petrotschenkoi* in *Ardea c. cinerea* p. 725 fig., *bazaleticus* in *A. c. c.* p. 727 fig., **spp. nov.,** Lake Bazalet, Gruzia, Russia, **Kurashvili,** B. E.

Corynosoma clavatum Goss in *Phalacrocorax atriceps* p. 142 fig., *bullosum* (v. Linst.) in int. *Mirounga leonina*, *Hydrurga leptonyx*, p. 142 figs., Heard and Macquarie Is., **Edmonds,** S. J. (**1**).—*C. hamanni* (Linst.) in *Leptonychotes weddelli*, off Enderby Land, Antarctica, p. 96 figs., **Edmonds,** S. J. (**5**).

Deltania **gen. nov.,** Quadrigyridae, defined p. 14, type : *scorzai* **sp. nov.** in int. of Pimelodidae, p. 12 figs., Venezuela, **Diaz-Ungria,** C. & **Rodrigo,** A. G.

Echinorhynchus rosai Porta probably a syn. of *Prosthorhynchus cylindraceus* (Gze.), p. 403, **Dollfus,** R. P. (**16**).—*E. impudicus* Dies, type-specimens re-examined, transf. to *Paracavisoma*, p. 273, **Kritscher,** E.—*E. laurentianus* **sp. nov.** in digestive tract of *Hippoglossoides platessoides*, *Hippoglossus hippoglossus*, *Pseudopleuronectes americanus* and *Scophthalmus aquosus*, Gulf of St. Lawrence, p. 437 figs., **Ronald,** K. (**1**).

Gordiorhynchus (*G.*) *buteonis* (Schrank), descriptive note, (*Sphaerirostris*) *picae* (Rud.) (syn. *Centrorhynchus picae* Dollfus), p. 414, **Dollfus,** R. P. & **Golvan,** Y. J.—*G.* (*Gordiorhynchus*) *gendrei* **sp. nov.** in int. of *Asturinula monogrammica*, French W. Africa, p. 83 figs., **Golvan,** Y. J. (**5**).—*G.* (*G.*) *madagascariensis* **sp. nov.** in int. of *Polyboroides madagascariensis*, Madagascar, p. 200 figs., **Golvan,** Y. J. (**6**).

Illiosentis furcatus Van Cl. & Lincicome in *Upenichthys porosus*, W. Australia, p. 94 fig., **Edmonds,** S. J. (**5**).

(*Longirostris*) Golvan a syn. of subg. (*Gordiorhynchus*) **subgen. nov.,** p. 414, **Dollfus,** R. P. & **Golvan,** Y. J.

Mediorhynchus lagodekhiensis **sp. nov.** in int. of *Garrulus glandarius krynicki*, Lagodekh game reserve, Gruzia, Russia, p. 729 fig., **Kurashvili,** B. E.

Octospiniferoides **gen. nov.,** Neoechinorhynchidae, defined p. 97, type : *chandleri* **sp. nov.** in *Fundulus grandis*, Texas, p. 97 figs., **Bullock,** W. L.

Oligacanthorhynchus Trav., systematic note, *ricinoides* (Rud.) redescr. from *Coracias garrula*, Iran, p. 345 figs., **Golvan,** Y. J. (**2**).

Oncicola sp. innom. in *Canis familiaris dingo*, Australia, p. 79 fig., **Edmonds,** S. J. (**4**).—*O. angolensis* **sp. nov.** in *Canis adustus*, Angola, p. 39 figs., **Golvan,** Y. J. (**3**).

Paracavisoma **gen. nov.,** Echinorhynchidae, defined p. 277, type : *Echinorhynchus impudicus* Diesing from *Rhinodoras niger* and *Doras costatus*, Brazil, p. 273 figs., **Kritscher,** E.

Polymorphus minutus (Gze.) (syn. *P. magnus* Skrj.) redescr. from *Spatula clypeata*, *Anas platyrhynchos*, *Querquedula querquedula*, *Nyroca nyroca* and *Marila fuligula*, Poland, p. 1, **Bezubik,** B. (**1**).—*P. paradoxus* **sp. nov.** in *Castor canadensis* (type-host) and *Ondatra zibethica*, juveniles in *Fulica atra*, Canada, p. 525 figs., **Connell,** R. & **Corner,** A. H.

Pomphorhynchus Montic., systematics, p. 474 figs., **Engelbrecht,** H.

Prosthorhynchus charadriicola Dollfus transf. to *Plagiorhynchus*, p. 406, **Dollfus,** R. P. (**16**).

Pseudogordiorhynchus **gen. nov.,** Polymorphidae, defined, p. 95, type : *antonmeyeri* **sp. nov.** in int. of *Halcyon senegalensis*, French W. Africa, p. 90 figs., **Golvan,** Y. J. (**5**).

Pseudoporrorchis indicus **sp. nov.** larvae in *Lycodon* sp., juvenile and adults in *Centropus castanopterus* (type-host) and *C. sinensis*, India, p. 659 figs., **Das,** E. N. (**1**).—*P. hylae* (Johnst.) (syns. *bulbocaudatus* Southw. & McFie, *centropusi* Tubangui), some redescr., systematic note, p. 76, *hydromuris* **sp. nov.** in sm. int. of *Hydromys chrysogaster*, Queensland, p. 77 figs., **Edmonds,** S. J. (**4**).—*P. rotundatus* (v. Linst.) redescr. from *Centropus madagascariensis*, p. 344 figs., **Golvan,** Y. J. (**1**).

Quadrigyridae Van Cl., review, p. 7, **Diaz-Ungria,** C. & **Rodrigo,** A. G.

Quadrigyrus torquatus Van Cl. in *Hoplias malabaricus*, *Symbranchus marmoratus*, *Crenicichla geayi*, *Gephyrocharax valenciae*, *Astynax bimaculatus*, Venezuela, p. 9 fig., **Diaz-Ungria,** C. & **Rodrigo,** A. G.

ROTIFERA
GASTROTRICHA
ECHINODERIDA
CHAETOGNATHA
SUBJECT INDEX

GENERAL

Taxonomy. — Identification of Chaetognatha, **Fraser,** J. H. ; Classification of the Rotifera, **Gallagher,** J. J. (**2**).

Obituary.—†C. Wesenberg-Lund, **Berg,** K.

STRUCTURE

Morphology.—Problem of morphological variation in rotifers, **Buchner,** H., **Melzer,** F. & **Rauh,** F.

Abnormality.—Abnormalities in *Keratella cochlearis*, **Thomasson,** K.

PHYSIOLOGY

Osmoregulation.—Of contractile vesicle of *Asplanchna*, **Green,** J. (**1**).

Growth.—Cyclomorphosis in *Keratella cochlearis*, **Gallagher,** J. J. (**1**).

REPRODUCTION AND DEVELOPMENT

Reproduction.—Reproductive rate in *Keratella*, **Edmondson,** W. T. ; Sexual periods of plankton-rotifers in Swedish Lapland, **Pejler,** B. (**2**).

Development.—In *Ploesoma hudsoni*, **Beauchamp,** P. de.

Regeneration.—In *Spadella cephaloptera*, **Ghirardelli,** E.

GENETICS

Variation.—Introgression in Rotifera, **Pejler,** B. (**1**).

ETHOLOGY

Ecology.—Ecology of rotifers in saline waters of central Germany, **Althaus,** B. (**1**), (**2**) ; Ecology of rotifers in alkaline waters, **Kertész,** G. ; Ecology of plankton-rotifers in Swedish Lapland, **Pejler,** B. (**2**) ; Ecology of plankton rotifers in central Sweden, **Pejler,** B. (**3**) ; Ecology of Belgian rotifers, **Ridder,** M. de (**1**), (**2**).

Bionomics.—Limnology of Swedish rotifers, **Berzinš,** B. (**2**), (**3**) ; Hydrobiology of rotifers in Lake Cilcescu, Rumania, **Botnariuc,** N. et al. ; Bionomics of rotifers in the Monrepos ponds of Ludwigsburg, **Klement,** V. ; *Collotheca* epizoic on cladoceran *Monospilus dispar*, **Sebestyén,** O. ; Types of egg-carrying in *Brachionus* and *Keratella*, **Suzuki,** M. ; Hydrobiological note on *Sagitta* in sea-water lakes of the Adriatic island of Mljet, **Vučetic,** T. ; Ringed tubes of *Limnias melicerta*, **Wright,** H. G. S. (**1**).

Parasitism.—*Daphnia* as host of *Brachionus rubens*. Finland, **Green,** J. (**2**) ; Parasites in *Brachionus* in Java, **Jirovec,** O. ; New *Dicranophorus* sp. in gill-chamber of *Cambarus affinis*, Berlin, **Wulfert,** K.

GEOGRAPHICAL DISTRIBUTION

Europe.—Rotifers in saline waters of central Germany, **Althaus,** B. (**1**), (**2**) ; Chaetognaths in plankton of Iberian Atlantic, **Alvarino,** A. (**2**) ; Rotifers from Aneboda, **Bērzinš,** B. (**1**) ; Chaetognaths in natant fauna off Blyth, Northumberland, **Bossanyi,** J. ; Rotifera in the plankton of Van Lakes, Germany, **Hauer,** J. ; Rotifera in the alkaline waters of Farmos, Pest, Hungary, **Kertész,** G. ; Rotifers from Ludwigsburg, Germany, **Klement,** V. ; Rotifera among Zosteraceae in the Bay of Naples, **Parenzan,** P. ; Plankton-rotifers from northern Swedish Lapland, **Pejler,** B. (**2**) ; Plankton-rotifers from central Sweden, **Pejler,** B. (**3**) ; Brackish water rotifers in fauna of Belgium, **Ridder,** M. de (**1**), (**2**) ; Two rotifers in fauna of Budapest, **Török,** P. ; Rotifers and gastrotrichs from Aszofö brooks, Hungary, **Varga,** L. (**1**) ; Rotifera in the psammon of Lake Balaton, Hungary, **Varga,** L. (**2**) ; Rotifers from rice-fields in Slovakia, **Vranovsky,** M. ; Rotifera from east Norfolk, **Wright,** H. G. S. (**3**).

Asia.—Chaetognaths from Viet-Nam, **Hamon,** M.

Africa.—Rotifera from the Gambia, **Bérzinš,** B. (**4**) ; *Cateria styx* in Angola, **Delamare Deboutteville,** C. ; Chaetognaths in plankton of Moroccan Atlantic, **Furnestin,** M. L. ;

New *Echinoderella* sp. from S. Africa, **Omer-Cooper,** J. (**1**), (**2**) ; Rotifers from Ghana, **Russell,** C. R. (**1**).

N. America.—*Polymerurus rhomboides* from Virginia, **Packard,** C. E. (**1**) ; Two gastrotrichs from Ashland, Virginia, **Packard,** C. E. (**2**) ; Macrodasyoid gastrotrichs in Puget Sound, **Wieser,** W. (**4**).

S. America.—Chaetognatha off Peru, **Bieri,** R.

Australasia.—Rotifers from S. Pacific Is. and N. Australia, **Russell,** C. R. (**2**) ; Rotifers new to fauna of New Zealand, **Russell,** C. R. (**3**).

Mediterranean.—New arenicolous rotifers from the Black Sea, **Althaus,** B. (**3**) ; Chaetognaths in plankton of western Mediterranean, **Alvarino,** A. (**1**).

SYSTEMATIC INDEX

ROTIFERA

Anuraeopsis fissa Gosse, Swedish Lapland, p. 7 figs., **Pejler,** B. (**2**).

Brachionus rubens (Ehrbg.), lorica descr., Hungary, p. 347 figs., **Kertész,** G.

Cephalobdella catellina (Müll.) f. *maior* Zawadowsky, Hungary, p. 345, **Kertész,** G.

Collotheca cf. *lie-petterseni* Bérzinš, p. 10 figs., *libera* (Zacharias), p. 11 fig., Swedish Lapland, **Pejler,** B. (**2**).

Colurella geophila limnetica **subsp. nov.,** p. 132 figs., *geophila hallensis* **subsp. nov.,** p. 132 figs., *gracilis* **sp. nov.** p. 132 figs., *salina* **sp. nov.** p. 134 figs., Germany, **Althaus,** B. (**1**), (**2**) ; *C. marinovi* p. 447 figs., *monodactylos* p. 448 fig., **spp. nov.,** Black Sea, **Althaus,** B. (**3**) ; *C. colurus* (Ehrbg.), p. 119 fig., *adriatica* (Ehrbg.) p. 119 fig., Belgium, **Ridder,** M. de (**2**) ; *C. aquaeducti* **sp. nov.,** Hungary, p. 304 fig., **Török,** P.

Dadayus **gen. nom. nov.** pro *Schizocerca* Daday *nec* Diesing, p. 183, **Gallagher,** J. J. (**2**).

Dicranophorus bulgaricus **sp. nov.,** Black Sea, p. 448 fig., **Althaus,** B. (**3**).—*D. cambari* **sp. nov.** in gill-chamber of *Cambarus affinis*, Berlin, p. 28 figs., **Wulfert,** K.

Encentrum arenarium p. 450 fig., *incertum* p. 450 fig., *psammophilum* p. 451 fig., *valkanovi* p. 452 fig., *striatum* p. 452 fig., **spp. nov.,** Black Sea, **Althaus,** B. (**3**).

Euchlanis callimorpha **sp. nov.,** Gambia, p. 231 fig., **Bérzinš,** B. (**4**).

Henoceros falcatus Milne, Hungary, p. 301 figs., **Török,** P.

Hexarthra f. fennica (Lev.), rice-fields, Slovakia, p. 661 figs., **Vranovsky,** M.

Kellicottia longispina (Kellicott), Swedish Lapland, p. 7 figs., **Pejler,** B. (**2**).

Lecane leontina (Turner), Gambia, p. 232 fig., **Bérzinš,** B. (**4**).—*L. luna* (Müller), variations in lorica, Fiji, p. 899 figs., **Russell,** C. R. (**2**).—*L. furcata* (Murray), p. 662 figs., *nana* (Murray), p. 662 figs., *scutata* (Harr. & Myers), p. 664 figs., rice-fields, Slovakia, **Vranovsky,** M.

Lepadella pontica **sp. nov.,** Black Sea, p. 453 fig., **Althaus,** B. (**3**).—*L. quinquecostata* (Lucks) f. *gambiensis* **forma nov.,** Gambia, p. 233, **Bérzinš,** B. (**4**).—*L. patella* (Müll.) var. *maxima* **var. nov.,** Hungary, p. 350 fig., **Kertész,** G.

Macrochaetus longipes Myers, Gambia, p. 234 fig., **Bérzinš,** B. (**4**).

Manfredium **gen. nom. nov.** pro *Eudactylota* Manfredi *nec* Walsingham, p. 183, **Gallagher,** J. J. (**2**).

Notholca striata (Müll.) p. 117 fig., *biremis* (Ehrbg.) p. 118 fig., Belgium, **Ridder,** M. de (**2**).

Pompholyx triloba **sp. nov.,** Sweden, p. 12 figs., **Pejler,** B. (**3**).

Proales commutata **sp. nov.,** Black Sea, p. 455 fig., **Althaus,** B. (**3**).

Ptygura lacunosa p. 9 figs., *tridorsicornis* p. 10 figs., *cephaloceros* p. 16 figs., **spp. nov.,** Norfolk, Britain, **Wright,** H. G. S. (**3**).

Rotaria monteti, p 31, *saprobica*, p. 32, **spp. nov.** [*sine descr.*], **Bérzinš,** B. (**1**).

Testudinella obscura **sp. nov.,** Black Sea, p. 456 fig., **Althaus,** B. (**3**).—*T. clypeata* (Müll.), Belgium, p. 120 fig., **Ridder,** M. de (**2**).—*T. bidentata* (Tern.), p. 664 fig., *incisa* (Tern.), p.

664 fig., *mucronata* (Gosse), p. 666 fig., *parva* (Tern.), p. 666 fig., rice-fields, Slovakia, **Vranovsky,** M.

Synchaeta cylindrica **sp. nov.,** Germany, p. 147 figs., **Althaus,** B. (**1**), (**2**).—*S. lakowitziana* Lucks, p. 8 fig., *pectinata* Ehrbg., p. 8 fig., Swedish Lapland, **Pejler,** B. (**2**).—*S. wesenberg-lundi* **sp. nov.,** Sweden, p. 12, **Pejler,** B. (**3**).

Wolga spinifera (Western), rice-fields, Slovakia, p. 166 figs., **Vranovsky,** M.

GASTROTRICHA

Macrodasys Remane, key to spp., p. 374, *cunctatus* **sp. nov.,** Puget Sound, U.S.A., p. 374 figs., **Wieser,** W. (**4**).

Paraturbanella Remane, key to spp., p. 378, *intermedia* **sp. nov.,** Puget Sound, U.S.A., p. 379 figs., **Wieser,** W. (**4**).

Tetronchyroderma Remane, key to spp., p. 379, *pugetensis* **sp. nov.,** Puget Sound, U.S.A., p. 380 figs., **Wieser,** W. (**4**).

Turbanella M. Schultze, key to spp., p. 376, *cornuta* Remane, p. 376 figs., *mustela* **sp. nov.,** Puget Sound, U.S.A., p. 377 fig., **Wieser,** W. (**4**).

ECHINODERIDA

Cateria styx Gerlach, Angola, p. 33 fig., **Delamare Deboutteville,** C.

Echinoderella maxwelli **sp. nov.,** S. Africa, p. 214 figs., **Omer-Cooper,** J. (**2**).

ANNELIDA, GEPHYREA, CONODONTA, SCOLECODONTA

SUBJECT INDEX

GENERAL

Biography : Bibliography.—St. Delle Chiaje, **Stroppiana,** L. ; Bibliography of Gephyra after 1920, **Wesenberg-Lund,** E. (**3**).

Taxonomy.—Classification of the Hirundinea, **Caballero y C.,** E. (**2**) ; Systematics of the families Orbiniidae, Apistobranchidae, Paraonidae and Longosomatidae, **Hartman,** O. ; Revision of the genus *Nematogenia*, **Gates,** G. E. (**4**) ; Systematics of the family Lumbricidae, **Omodeo,** P. (**4**) ; Review of the family Orbiniidae, **Pettibone,** M. H. (**1**) ; Status of *Arenicola glacialis*, **Wells,** G. P. (**3**) ; Differential keys to spp. of the genera *Protodrilus* and *Nerilla*, **Wieser,** W. (**3**) ; Specific relationships in the subgenus (*Enchytraeoides*), **Wilcke,** D. E. (**1**).

Methods.—Field-tests of repellent against leeches, **Audy,** J. R. & **Harrison,** J. L. ; Method for transporting *Nereis succinea*, **Bokova,** E. N. ; Culture of *Neanthes caudata*, **Reish,** D. J. (**3**) ; Control of *Mercierella* encrustations, **Tebble,** N.

Collections.—Rev. H. Friend's Lumbricidae, **Roots,** B. I. (**2**).

Obituary.—†C. Wesenberg-Lund, **Berg,** K.

STRUCTURE

Morphology.—Morphological notes on two species of *Hormogaster*, **Omodeo,** P. (**2**) ; Morphology of annelids, **Weber,** H. ; Morphological variation in *Arenicola marina*, **Wells,** G. P. (**3**).

Head.—Structure of the prostomium and anterior segments in the genera *Chrysopetalum*, *Heteropale* and *Bhawania*, **Jorge,** A. R.

Parapodia.—Parapodial glands of tomopterid polychaetes, **Dales,** R. P. (**5**).

Musculature.—Muscle-fibres in body-wall of earthworm, **Hanson,** J. ; Smooth muscle-fibres in annelids, **Hanson,** J. & **Lowy,** T. ; Smooth muscle in body-wall of earthworms, **Kawaguti,** S. & **Ikemoto,** N. (**1**).

Alimentary system.—In *Owenia fusiformis*, **Dales,** R. P. (**1**) ; Digestive system in *Lumbricus terrestris*, **Gardy,** M. ; Mechanism of pharyngeal bulb in *Dinophilus*, **Jones,** E. R.

Circulatory system.—Heart of earthworm, **Levowitz,** H. J. (**2**).

Nervous system.—Brain of *Nephthys*, **Clark,** R. B. (**3**) ; Structure of brain in *Nephthys*, **Clark,** R. B. (**4**) ; Nerves in segments of nereids, **Smith,** J. E.

Reproductive system.—Sperm-ducts of earthworm, **Levowitz,** H. J.

(**1**) ; Oöthecae in British lumbricids, **Svendsen,** J. A. (**3**).

Cytology : Histology.—Pigment-cells in *Glossiphonia complanata*, **Bradbury,** S. (**2**) ; Nerve-cell changes in polychaetes, **Clark,** R. B. (**2**) ; Cytology of neurosecretions of nereids, **Defretin,** R. (**1**) ; Cytology of earthworm nerve-cells, **Hama,** K. ; Neoblasts in *Pomatoceros triqueter*, **Jyssum,** S. ; Histological changes in developing *Tylorrhynchus heterochaetus*, **Kagawa,** Y. (**2**) ; Cytoplasmic inclusions of neurones in *Pheretima*, **Malhotra,** S. K. ; Cytology of calciferous glands in lumbricid oligochaetes, **Myot,** C. ; Polyploidy in lumbricids, **Omodeo,** P. (**1**) ; Synapsis in earthworm, **Robertis,** E. D. P. de & **Bennett,** H. S. ; Chloragogen granules in earthworms, **Roots,** B. I. (**1**) ; Chloragogen cells in lumbricids, **Semal-Van Gansen,** P. (**1**) ; Histology of alimentary canal in *Terebella lapidaria*, **Sutton,** M. F. ; Chromosomes in *Hyperiodrilus africanus*, **Tuzet,** O. & **Vogeli,** M. ; Histology of annelids, **Weber,** H.

Variation : Anomaly.—Variations in proboscis-armature of *Perinereis cultrifera*, **Durchon,** M. (**1**) ; Aberrant form of *Allolobophora tuberculata*, **Gates,** G. E. (**5**) ; Polycephaly in *Trypanosyllis zebra*, **Junqua,** C.

PHYSIOLOGY

Constitution : Metabolism.—Respiration in *Alma emini*, **Beadle,** L. C. ; Histochemistry of connective tissue in *Glossiphonia complanata*, **Bradbury,** S. (**1**) ; Carbonic anhydrase in earthworms, **Clark,** A. M. ; Functions of coelomic cells in polychaetes, **Dales,** R. P. (**2**) ; Histochemistry of neurosecretions of nereids, **Defretin,** R. (**1**) ; Respiratory metabolism of *Dendrostomum cymodoceae*, **Edmonds,** S. J. (**2**) ; Nitrogen catabolism in *Dendrostomum cymodoceae*, **Edmonds,** S. J. (**3**).—Histophysiology of buccal and pharyngeal regions in *Eisenia foetida*, **Gansen,** P. S. van ; Osmotic regulation in nereids, **Jorgensen,** C. B. & **Dales,** R. P. ; Phosphate dehydrogenase in worms, **Ley,** J. de & **Vercruysse,** R. ; Hyaluronidase of *Hirudo medicinalis*, **Linker,** A. et al. ; Hemerythrin in *Phascolosoma gouldi*, **Love,** W. E. ; Histochemistry of calciferous glands in lumbricid oligochaetes, **Myot,** C. ; Components of earthworm excreta, **Needham,** A. E. ; Axial metabolic gradient in earthworm, **O'Brien,** B. R. A. (**1**) ; Tissue-metabolism in regenerating earthworm, **O'Brien,** B. R. A. (**2**) ; Phosphoric esters in lumbricid muscles, **Rey** C. ; Cuticle of annelids, **Rizzoli** C., Guanidine constituents of *Audouinia tentaculata* eggs, **Robin,** Y. et al ; New guanidine derivative in muscle of *Hirudo medicinalis*, **Roche,** J. et al. ; Lipo-pigment in chloragosomes of earthworms, **Semal-Van Gansen,** P. (**2**) ; Histophysiology of the digestive system of *Eisenia*, **Semal-Van Gansen,** P. (**3**) ; Histogenesis in caudal regeneration of *Nereis massiliensis*, **Sicard-Bruslé,** S. ; Chemistry of earthworm cuticle, **Singleton,** L. ; Function of earthworm chloragens, **Ulrich,** K. ; Histochemistry of cement in *Sabellaria* tube, **Vovelle,** J.

Neuro-physiology.—Influence of neurosecretory system on reproduction in *Nephthys*, **Clark,** R. B. (**1**) ; Neurosecretion in *Eisenia foetida*, **Herlant-Meewis,** H. (**3**).

Alimentation.—Feeding of *Owenia fusiformis*, **Dales,** R. P. (**1**) ; Feeding mechanism of *Terebella lapidaria*, **Sutton,** M. F.

Growth : Vitality.—Survival of *Glossiphonia complanata*, **Mann,** K. H. (**1**) ; Seasonal rythm of growth in *Helobdella stagnalis*, **Mann,** K. H. (**2**).

Luminescence.—In polynoids, **Nicol,** J. A. C. (**1**) ; Composition of light in *Chaetopterus*, **Nicol,** J. A. C. (**2**) ; Composition of light in Polynoids, **Nicol,** J. A. C. (**3**).

Environmental effects.—Effects of radiation on *Chaetopterus* eggs. **Henley,** C. & **Costello,** D. P. ; Effect of acid sea-water on fertilization of *Urechis unicinatus* eggs, **Kagawa,** Y. (**1**) ; Effects of various substances on proteinase activity in *Pheretima*, **Kamat,** D. N. ; Effect of environment on *Nereis succinea*, **Karpevich,** A. F. S. & **Osadchik,** F. V. ; Reversal of phototaxis in *Polydora pulchra* larvae, **Ranade,** M. R. ; Effect of pollution on polychaetes in Lower San Gabriel River, California, **Reish,** D. J. (**1**) ;

Capitella capitata a possible indicator of pollution in marine waters, **Reish,** D. J. (**2**) ; Effects of soil-fumigation on earthworms, **Satchell,** J. E. ; Influence of soil-structure on distribution of *Allolobophora icteria* forma *typica*, **Saussey,** M. (**2**) ; Tolerance of low salinities by nereids, **Smith,** R. I. ; Effects of irradiation of regeneration in oligochaetes, **Wolff,** E.

REPRODUCTION AND DEVELOPMENT

Reproduction.—Fertilization in *Hydroides hexagonus*, **Colwin,** A. L. & L. H. & **Philpott,** D. E. ; Influence of proventriculus on stolonisation in Syllids, **Durchon,** M. (**2**) ; Reproductive behaviour of nereids, **Durchon,** M. (**3**) ; Reproduction and development in the family Orbiniidae, **Hartman,** O. ; Reproduction in *Eisenia foetida*, **Herlant-Meewis,** H. (**3**) ; Experimental stolonization in *Trypanosyllis zebra*, **Junqua,** C. ; Reproduction in *Phyllodoce mucosa*, **Plessis,** J. ; Reproduction in two forms of *Hyperiodrilus africanus*, **Tuzet,** O. & **Vogeli,** M. ; Asexual reproduction in *Salmacina incrustans*, **Vannini,** E. & **Ranzoli,** F. (**1**) ; Sexual and asexual reproduction in regenerated *Salmacina incrustans*, **Vannini,** E. & **Ranzoli,** F. (**2**) ; Asexual reproduction in *Salmacina incrustans*, **Vannini,** E. & **Ranzoli,** F. (**3**) ; Abnormal copulation in *Eisenia foetida*, **Wilcke,** D. E. (**3**).

Maturation.—In *Spirorbis pagenstecheri*, **Reggiani,** M. P. (**1**) ; In *Salmacina incrustans*, **Vannini,** E. & **Ranzoli,** F. (**1**).

Gametogenesis.—Oogenesis in *Pomatoceros triqueter*, **Jyssum,** S. ; Spermatogenesis in *Hirudo*, **Nekhaev,** V. M. ; Gametogenesis in *Spirorbis pagenstecheri*, **Reggiani,** M. P. (**2**).

Parthenogenesis.—Partial parthenogenesis in *Eisenia foetida*, **André,** F. (**2**) ; Parthenogenesis in *Nereis diversicolor*, **Durchon,** M. (**4**).

Embryology.—Cleavage in Annelida, **Kiknadze,** I. I. ; Activation of *Tylorrhynchus heterochaetus* egg-cells, **Okada,** K.

Sex.—Sexual inversion in *Trypanosyllis zebra*, **Junqua,** C.

Development.—Development in *Pisione remota*, **Banse,** K. ; Development in *Dasybranchus caducus*, **Bookhout,** C. G. ; Morphogenesis in lumbricids, **Gates,** G. E. (**5**) ; Ovogenesis in *Phascolosoma vulgare*, **Gonse,** P. H. ; Myogenesis in *Eisenia foetida*, **Kawaguti,** S. & **Ikemoto,** N. (**2**) ; Development in Nereidae, **Reish,** D. J. (**3**) ; Biology of zooid of *Stylaria lacustris*, **Stolte,** H. A. ; Development in annelids, **Weber,** H. ; Typhlosole development in *Megascolides australis*, **Wilcke,** D. E. (**2**).

Life-history.—Life-history of *Glossiphonia complanata*, **Mann,** K. H. (**1**) ; Life-history of *Helobdella stagnalis*, **Mann,** K. H. (**2**) ; Life-history of *Neanthes caudata*, **Reish,** D. J. (**3**).

Regeneration : Reconstitution. Regeneration in polychaetes, **Abeloos,** M. ; Regeneration in earthworms, **Compton,** E. A. ; Histogenesis in anterior regeneration in *Salmacina incrustans*, **Cresp,** J. ; Scissiparity and regeneration in aeolosomatid oligochaetes, **Herlant-Meewis,** H. (**1**) ; Pygidial regeneration in *Trypanosyllis zebra*, **Junqua,** C. ; Regeneration of the operculum in Serpulids, **Ludwig,** H. W. (**1**) ; Compensatory regeneration in *Apomatus similis*, **Ludwig,** H. W. (**2**) ; Posterior regeneration in *Salmacina incrustans*, **Vannini,** E. & **Ranzoli,** F. (**1**).

EVOLUTION AND GENETICS

Phylogeny.—Phylogenetic relationships of the genus *Hormogaster*, **Omodeo** P. (**2**) ; Phylogeny of the family Lumbricidae, **Omodeo,** P. (**4**).

Genetics.—Genetical control of asexual reproduction in *Autolytus*, **Cognetti,** G.

ETHOLOGY

Ecology.—Ecology of Hebridean lumbricids, **Boyd,** J. M. (**1**) ; Ecology of lumbricids in a dune-machair soil, **Boyd,** J. M. (**3**) ; Ecology of lumbricids in maritime grassland, **Boyd,** J. M. (**4**) ; Ecology of littoral oligochaets in the Cimbrian Peninsula, **Bulow,** T. v. ; Distribution of pelagic polychaetes in Pacific Ocean, **Dales,**

R. P. (**5**) ; Ecology of annelids in Holstein lakes, **Ehrenberg,** H. ; Ecology of *Trocheta bykowskii* in Holland, **Hartog,** C. den & **Rossum,** E. van ; Ecology of earthworms, **Roy,** S. K. ; Ecology of polychaetes in off-shore deposits in Irish Sea, **Southward,** E. C. (**1**) ; Distribution of freshwater annelids in lower Franconia, **Stadler,** H. ; Ecology of annelids in bottom-fauna of Lake Texoma, **Sublette,** J. E. ; Distribution of lumbricids in Pennine moorland, **Svendsen,** J. A. (**1**).

Bionomics.—Diurnal cycles in earthworms, **Arbit,** J. ; Biology of *Nereis succinea* in Northern Caspian, **Belyaev,** G. M. ; Effect of *Nereis succinea* on benthos of Caspian Sea, **Birshtein,** Y. A. & **Spasski,** N. N. ; Transmission of virus by *Hirudo medicinalis*, **Ciaccio,** G. ; Quantitative feeding in sabellid and serpulid, **Dales,** R. P. (**3**) ; *Nereis succinea* as food for sturgeon, **Dales,** R. P. (**4**) ; Constituents of polychaete tubes, **Defretin,** R. (**2**) ; Populations of *Allolobophora limicola* in Scotland, **Guild,** W. J. McL. ; Repellants and poisons against leeches, **Harrison,** J. L. et al. ; Encystment in aeolosomatid oligochaetes, **Herlant-Meewis,** H. (**2**) ; Biology of *Glycera dibranchiata*, **Klawe,** W. L. & **Dickie,** L. M. ; Nutritive value of *Eunice viridis*, **Millar,** C. D. et al. ; Copulation and spawning habits of *Erpobdella lineata*, **Nagao,** Z. ; Effect of *Polydora websteri* on oyster colonies, **Owen,** H. M. ; Note on feeding of *Hirudo medicinalis*, **Reynoldson,** T. B. (**5**) ; Tube of *Pectinaria koreni*, **Scherf,** H. ; Importance of lumbricids in formation of soil, **Sokolov,** A. A. ; Behaviour of lumbricids in moorland soils, **Svendesen,** J. A. (**2**) ; Rhythms in polychaete behaviour, **Wells,** G. P. (**1**) ; Biology of *Arenicola*, **Wells,** G. P. (**2**) ; Food of *Nereis succinea* in Caspian Sea, **Yablonskaya,** E. A. ; Acclimatization of *Nereis succinea* in Caspian Sea, **Zenkevich,** L. A.

Parasitism : Commensalism.—Endoparasitic polychaetes, **Pettibone,** M. H. (**3**) ; Commensalism in earthworms, **Saussey,** M. (**1**) ; *Golfingia procerum* parasitic on *Aphrodite aculeata*, **Thorson,** G. ; *Limnatis niloticus* causing "halzoun" in Middle East, **Watson,** J. M. & **Kerim,** R. A.

GEOGRAPHICAL DISTRIBUTION

General.—Benthic Polychaeta from Danish Deep-Sea Expedition round the World 1950–52, **Kirkegaard,** J. B.

Europe.—New localities for *Dendrobaena mammalis* in S.W. France, **André,** F. (**1**) ; Oligochaetes in the mesopsammon of the Elbe, **Ax,** P. (**3**), ; Annelida in marine fauna of Dale Fort, Britain, **Bassindale,** R. & **Barrett,** J. H. ; Polychaete larvae in natant fauna of Blyth, Northumberland, **Bossanyi,** J. ; Lumbricids from St. Kilda, Scotland, **Boyd,** J. M. (**2**) ; Littoral oligochaetes from the Cimbrian Peninsula, **Bulow,** T. v. ; Oligochaetes from the Daugav Basin, **Chekanovskaya,** D. V. ; Littoral polychaetes from Rumanian coast, **Dumitrescu,** E. ; New *Aelosoma* sp. from Yugoslavia, **Georgévitch,** J. (**2**) ; New branchobdellids from Yugoslavia, **Georgévitch,** J. (**1**) ; Annelids in fauna of Holstein lakes, Germany, **Ehrenberg,** H. ; *Allolobophora limicola* in S.W. Scotland, **Guild,** W. J. McL. ; *Trocheta bykowskii* in fauna of Holland, **Hartog,** C. den & **Rossum,** E. van ; Annelids in limnicolous fauna of St.-Jean-de-Losne, France, **Juget,** J. ; Lumbricids in red soil of Gruzia, **Kobakhidze,** D. N. ; Four new lumbricids from caves, Caucasus, **Malevich,** I. I. ; Polychaetes new to Azov Sea, **Nesis,** K. N. ; Lumbricids from the Appennines, Italy, **Omodeo,** P. (**3**) ; *Batrachobdella paludosa* in Czechoslovakia, **Ouderiková,** V. ; Lumbricids in fauna of Voronezh District, Russia, **Petrov,** V. S. ; *Troglochaetus beranecki* new to cavernicolous fauna of Rumania, **Plesa,** C. ; *Hirudo medicinalis* in fauna of Anglesey, **Reynoldson,** T. B. (**5**) ; Some lumbricids collected by the Rev. H. Friend, **Roots,** B. I. (**2**) ; Polychaetes from the Isle of Man, **Southward,** E. C. (**2**) ; *Hemiclepsis marginata* in fauna of Yorkshire, **Thompson,** E. ; Two new spionid polychaetes from Sweden, **Thulin,** G. ; Annelida in Loch Lomond, **Weerekoon,** A. C. J. ; Annelids in fauna of Goldapiwo Lake, Poland,

Wisniewski, W. L. (**1**) ; Lumbricids from Moravia, **Zajonc,** I. (**1**) ; Lumbricids from Slovakia, **Zajonc,** I. (**2**) ; Mediterranean polychaetes in the Caspian Sea, **Zenkevitch,** L.

Africa.—Polychaetes from Natal and Mocambique, **Day,** J. H. ; Polychaetes from Senegal, **Fauvel,** P. & **Rullier,** F. (**1**), (**2**) ; *Pygmaeodrilus* spp. from East Africa, **Jamieson,** B. G. M. ; Gephyrea from the Red Sea, **Wesenberg-Lund,** E. (**2**) ; Gephyrea from West Africa, **Wesenberg-Lund,** E. (**3**).

Asia.—Earthworms from the Deccan, **Gates,** G. E. ; Polychaetes from the Gulf of Aqaba, **Fauvel,** P. (**1**) ; Polychaetes from the Bay of Haifa, Israel, **Fauvel,** P. (**2**) ; Polychaetes from paddy-fields of Viet-Nam, **Rullier,** F. ; Sipunculoidea from Israel, **Wesenberg-Lund,** E. (**1**) ; *Aelosoma hemprichi* in Japan, **Yamaguchi,** H.

N. America.—New *Ramiella* sp. from Guatemala, **Gates,** G. E. (**2**) ; Redescription of *Allolobophora limicola* from New Jersey and Massachusetts, **Gates,** G. E. (**3**) ; New *Nematogenia* spp. from Dominican Republic, **Gates,** G. E. (**4**) ; The genus *Dinophilus* in the U.S.A., **Jones,** E. R. & **Ferguson,** F. F. ; New *Plutellus* sp. from State of Washington, **McKey-Fender,** D. ; New Orbiniid polychaetes from N. America, **Pettibone,** M. H. (**1**) ; Two new *Drilonereis* spp. from N. America, **Pettibone,** M. H. (**3**) ; Archiannelids from Puget Sound, **Wieser,** W. (**3**).

S. America.—Three new *Armandia* spp. from Brazil and Salvador, **Hartmann-Schröder,** G.

Australasia.—New polychaetes from Australia, **Hartman,** O. ; New syllid polychaete from New Zealand, **Knox,** G. A.

Arctic Ocean.—Arctic polychaetes, **Ushakov,** P. V. (**2**).

N. Atlantic Ocean.—New *Aricidea* sp. from N. Atlantic, **Pettibone,** M. H. (**2**).

Mediterranean.—New *Nerilla* sp. from the Bosporus, **Ax,** P. (**9**) ; Pelagic larvae of polychaetes in Black Sea, **Kiseleva,** M. I.

Pacific Ocean.—Pelagic polychaetes from north-east Pacific, **Berkeley,** E. & C. ; Pelagic polychaetes from the Pacific, **Dales,** R. P. (**5**) ; Orbiniid, Paraonid and Longosomatid polychaetes from the Pacific, **Hartman,** O. ; New *Polynoë* sp. from the Far Eastern Seas, **Ushakov,** P. V. (**1**) ; Polychaetes from the northwestern Pacific, **Ushakov,** P. V. (**3**).

Antarctic Ocean.—Antarctic polychaetes, **Ushakov,** P. V. (**2**).

Geological.—†Devonian and Carboniferous conodonts from Austria, **Flügel,** H. & **Ziegler,** W. ; †Silurian conodonts from Western Australia, **Glenister,** B. F. & A. T. ; †Conodonts in Devonian of Sahara, **Lys,** M. & **Serre,** B. ; †Annelids in Tertiary of Austria, **Schmidt,** W. J.

SYSTEMATIC INDEX

ANNELIDA

ARCHIANNELIDA

Dinophilus kincaidi, Washington, p. 440 figs., *jagersteni*, Virginia and N. Carolina, p. 443 figs., **spp. nov., Jones,** E. R. & **Ferguson,** F. F.

Nerilla stygicola **sp. nov.,** Bosporus, p. 64 figs., **Ax,** P. (**9**).—*N.* O. Schm., key to spp., p. 280, *antennata* O. Schm. p. 280, *digitata* **sp. nov.** p. 280 figs., Puget Sound, N. America, **Wieser,** W. (**3**).

Protodrilus Hatschek, key to spp., p. 277, *chetifer* Remane, p. 277 figs., *flabelliger* **sp. nov.** p. 277 figs., Puget Sound, N. America, **Wieser,** W. (**3**).

Trilobodrilus nipponicus Uchida & Okuda, Puget Sound, N. America, p. 284, **Wieser,** W. (**3**).

POLYCHAETA

(*Aedicira*) **subgen. nov.,** *Aricidea*, defined, key to spp., p. 325, type : *Aricidea pacifica* Hartman pp. 325, 326, to incl. also *belgicae* (Fauvel) p. 327, *ramosa* Annenkova, p. 327, **Hartman,** O.

Alcandra robusta Kinbg. referred to *Scoloplos* (*Leodamas*) p. 295, **Hartman,** O.

Alciopa Aud. & Mil.-Edw. defined, p. 123, *reynaudii* A. & M.-E. p. 124 figs., Pacific, **Dales,** R. P. (**5**).

Alciopidae Ehlers, key to genera and spp. in Pacific, p. 157, **Dales,** R. P. (**5**).

Alciopina Clap. defined, p. 128, **Dales,** R. P. (**5**).

Amaea trilobata (Sars), Britain, p. 277, **Southward,** E. C. (**2**).

Ammotrypane galatheae **sp. nov.,** Banda Trench, p. 71 fig., **Kirkegaard,** J. B.

Ancistrosyllis cf. *constricta* Southern, S. Africa, p. 71 figs., **Day,** J. H.—*A. groenlandica* McInt., Britain, p. 260 figs., **Southward,** E. C. (**2**).

Aphrodite alta Kinbg., some redescr., Senegal, p. 44, **Fauvel,** P. & **Rullier,** F. (**1**).

Apistobranchidae Mesnil & Caullery, key to genera, p. 308, **Hartman,** O.

Apistobranchus tullbergi (Théel), Britain, p. 268 figs., **Southward,** E. C. (**2**).

Arenicola marina (L.) variation, p. 400, *glacialis* Murdoch a subsp. of *marina*, p. 408, **Wells,** G. P. (**3**).

Aricidea Webster (s.s.) defined p. 314, key to spp., p. 315, *fragilis* Webst., N. Carolina, p. 317 fig., *fauveli* **sp. nom. nov.** pro *fragilis* Fauvel *nec* Webster, p. 318 fig., sp. (near *suecica* Eliason), Gulf of California, p. 319 fig., *uschakovi* Zachs, California, p. 321 fig., *A.* (*Cirrophorus*), key to spp., p. 322, (*C.*) *aciculata* **sp. nov.,** California, p. 323 fig., (*C.*) *furcata* **sp. nov.,** California, p. 325 fig., *A.* (*Aedicira*), key to spp., p. 325, (*A.*) *pacifica* Hartman, California, p. 326, **Hartman,** O.—*A.* Webster defined p. 354, subgen. (*Aricidea*) defined p. 354, (*A.*) *albatrossae* **sp. nov.,** N. Atlantic, p. 354 figs., **Pettibone,** M. H. (**2**).—*A. suecica* Elias. p. 269 figs., *minuta* **sp. nov.,** p. 269 figs., (*Cirrophorus*) *branchiata* (Ehlers) p. 271 figs., Britain, **Southward,** E. C. (**2**).

Armandia ilhabelae, Brazil, p. 63 figs., *salvadoriana*, El Salvador, p. 65 figs., *hossfieldi*, Brazil, p. 67 figs., **spp. nov., Hartman-Schroder,** G.

Axiothella quadrimaculata Aug., S. Africa, p. 111 figs., **Day,** J. H.

Califia **gen. nov.,** Orbiniinae, defined p. 305, type : *calida* **sp. nov.,** California, p. 306 figs., **Hartman,** O.

Callizona nasuta Greeff, p. 279 figs., *setosa* (Greeff), p. 281 figs., N.W. Pacific, **Ushakov,** P. V. (**3**).

Callizonella lepidota (Krohn), p. 278 figs., *excellata* Ushakov p. 279 figs. N.W. Pacific, **Ushakov,** P. V. (**3**).

Capitomastus minimus Langh., Britain, p. 273, **Southward,** E. C. (**2**).

Chloeia viridis Schmarda, redescr., Senegal, p. 54 fig., **Fauvel,** P. & **Rullier,** F. (**1**).

Chone suspecta Kröyer, Britain, p. 278 figs., **Southward,** E. C. (**2**).

Clavisyllis **gen. nov.,** Syllidae, defined p. 493, type : *alternata* **sp. nov.,** New Zealand, p. 493 figs., **Knox,** G. A.

Clymene natalensis, p. 107 figs., *mossambica*, p. 109 figs., **spp. nov.,** S. Africa, **Day,** J. H.

Corynocephalus paumotanus Chamberlin, N.W. Pacific, p. 277 figs., **Ushakov,** P. V. (**3**).

Drilonereis Clap. redefined, p. 176, *benedicti* **sp. nov.** parasitic in *Onuphis magna*, Florida, p. 177 figs., *caulleryi* **sp. nov.** parasitic in *Onuphis conchylega*, Massachusetts and Virginia, p. 179 figs., **Pettibone,** M. H. (**3**).

Epidiopatra hupferiana Aug. var. *monroi* **var. nov.,** S. Africa, p. 92, **Day,** J. H.

Eteone ornata Grube, morphol. note, S. Africa, p. 69, **Day,** J. H.

Eunice simplex Peters, type re-exam., p. 90, **Day,** J. H.

Eurythoë parvecarunculata Horst, redescr., Senegal, p. 58 fig., **Fauvel,** P. & **Rullier,** F. (**1**).

Fabricia mossambica **sp. nov.,** S. Africa, p. 115 figs., **Day,** J. H.

Glycera natalensis **sp. nov.,** S. Africa, p. 86 figs., **Day,** J. H.—*G. dibranchiata* Ehlers, biology in Canada, pp. vii + 37, figs., **Klawe,** W. L. & **Dickie,** L. M.

Goniadopsis naskallensis (Grav.) some redescr., p. 88. **Day,** J. H.

Haploscoloplos Monro defined p. 268, key to spp. p. 269, *fragilis* (Verrill), Atlantic coast of U.S.A., p. 271 figs., *robustus* (Verrill), Gulf of Mexico and Atlantic coast of U.S.A., p. 272 figs.,

elongatus Johnson, Puget Sound, Alaska and California, p. 273 figs., *kerguelensis* (McInt.), S. Georgia, p. 275 figs., *panamensis* (Monro), Alaska, p. 277 figs., *bifurcatus* **sp. nov.,** Australia, p. 277, sp. innom., Greenland, p. 279 figs., **Hartman,** O.

Harmothoë goreënsis Aug., morphol. note, S. Africa, p. 64, **Day,** J. H.

Hermione hystrix (Sav.), morphol. note, Senegal, p. 46, **Fauvel,** P. & **Rullier,** F. (**1**).

Hermodice carunculata (Pall.), morphol. note, Senegal, p. 57, **Fauvel,** P. & **Rullier,** F. (**1**).

Hololepidella nigropunctata (Horst) redescr., S. Africa, p. 65 figs., **Day,** J. H.

Ilyphagus bythincola Chamberlin, Sunda Trench, p. 70 fig., **Kirkegaard,** J. B.

Iospilus Viguier defined, p. 108, *phalacroides* Vig., Pacific, p. 108, **Dales,** R. P. (**5**).

Kesun abyssorum Monro, Sunda Trench, Kermadec Trench, p. 71 fig., **Kirkegaard,** J. B.

Krohnia Quatref. defined, p. 129, **Dales,** R. P. (**5**).

Laeonereis ankyloseta **sp. nov.,** S. Africa, p. 83 figs., **Day,** J. H.

Leiochone tenuis **sp. nov.,** S. Africa, p. 110 figs., **Day,** J. H.—*L. johnstoni* McInt., Britain, p. 274 figs., **Southward,** E. C. (**2**).

Leonnates persica Wesenberg-Lund, S. Africa, p. 76 fig., **Day,** J. H.

Lepidonotus glaucus (Peters), type reexam., synonyms : *carinatus* Potts and *platycirrus* Day, p. 60, *purpureus* Potts, morphol. note, Mocambique, p. 61, **Day,** J. H.

Longosoma catalinensis Hartman, California, p. 336 fig., **Hartman,** O.

Longosomatidae Hartman defined, p. 335, **Hartman,** O.

Lopadorhynchus Grube defined, p. 101, (*L.*) *uncinatus* Fauvel (syn. *varius* Treadwell), p. 101 figs., (*L.*) *brevis* Grube, p. 104 figs., (*L.*) *krohnii* (Clap.), p. 105 figs., Pacific, **Dales,** R. P. (**5**).—*L. appendiculatus* Southern, N.W. Pacific, p. 271 figs., **Ushakov,** P. V. (**3**).

Lumbriconereis heteropoda Marenz., morphol. note, Senegal, p. 94, **Fauvel,** P. & **Rullier,** F. (**1**).

Lumbrinereis papillifera Fauvel, re defined, S. Africa, p. 93, **Day,** J. H.

Macellicephala hadalis **sp. nov.** from Philippine, Banda and Kermadec Trenches, p. 64 figs., **Kirkegaard,** J. B.—*M. affinis* Fauvel, p. 1663 figs., *longipalpa* **sp. nov.,** N. Greenland sea, p. 1663 figs., *polaris* **sp. nov.** off Wrangel Is., Arctic, p. 1664 figs., **Ushakov,** P. V. (**2**).

Macelloides **gen. nov.,** Aphroditidae, type : *antarctica* **sp. nov.,** Antarctica, p. 1670 fig., **Ushakov,** P. V. (**2**).

Macroclymene monilis (Fauvel) redescr. from Red Sea, p. 7, **Fauvel,** P. (**1**).

Marphysa bifurcata Kott, redescr., p. 90 figs., *simplex* Crossland, morphol. note, p. 91, S. Africa, **Day,** J. H.

Maupasia Viguier defined, p. 108, *gracilis* (Reib.), Pacific, p. 108, **Dales,** R. P. (**5**).—*M. brodskyi* **sp. nov.,** N.W. Pacific, p. 270 figs., **Ushakov,** P. V. (**3**).

Melinnexis somovi **sp. nov.,** central Arctic regions, p. 1667 figs., **Ushakov,** P. V. (**2**).

Microspio armata **sp. nov.,** Sweden, p. 57 figs., **Thulin,** G.

Naiades Delle Chiaje, defined, p. 111, *cantrainii* Delle Chiaje, Pacific, p. 113 figs., **Dales,** R. P. (**5**).

Naineris Blainv. defined, key to spp., p. 296, *laevigata* (Grube), Florida, Galapagos, Hawaii and Peru, p. 297 ags., *dendritica* (Kinbg.), Alaska to California, p. 299 figs., *uncinata* **sp. nov.,** Alaska, p. 301 figs., *grubei australis* **subsp. nov.,** S. Australia, p. 303 figs., *bicornis* Hartman, Gulf of Mexico, p. 304 figs., *setosa* (Verrill), Florida and Puerto Rico, p. 305 figs., **Hartman,** O.—*N.* Blainv. defined, subgenera defined, p. 160, (*N.*) *berkeleyorum* **sp. nov.,** Washington, p. 165 figs., **Pettibone,** M. H. (**1**).

Nephthys elamellata Eliason, Kermadec Trench, p. 68 fig., **Kirkegaard,** J. B.—*N.* (*Aglaophamus*) *rubella* (Mich.), Britain, p. 264, **Southward,** E. C. (**2**).

Nereis (*Neanthes*) *mossambica* **sp. nov.,** p. 78 figs., (*Neanthes*) *indica* var. *brunnea* **var. nov.,** p. 80 figs., (*Nereis*) *granulata* **sp. nov.,** p. 82 figs., S. Africa, **Day,** J. H.—*N. profundi* **sp. nov.** from the Banda Trench, p. 67 figs., **Kirkegaard,** J. B.

Nicomache trispinata Arwids., Britain, p. 274, **Southward,** E. C. (**2**).

Ninoë fusca Moore, Kermadec Trench, p. 69 fig., **Kirkegaard,** J. B.

Notocirrus Schmarda redefined, p. 181, *spiniferus* (Moore) parasitic in *Diopatra cuprea*, Massachusetts, p. 181 figs., **Pettibone,** M. H. (**3**).—*N. scoticus* McInt., Britain, p. 265 figs., **Southward,** E. C. (**2**).

Notomastus aberrans **sp. nov.,** S. Africa, pp. 105, 127 figs., **Day,** J. H.

Opisthosyllis laevis **sp. nov.,** Mocambique, p. 74 figs., **Day,** J. H.

Orbinia Quatref. defined, p. 256, list of spp., p. 250, type : *cuvieri* (Aud. & Edw.), Sweden, p. 256 figs., *johnsoni* (Moore), California and Mexico, p. 257 figs., **Hartman,** O.—*O.* Quatref. defined, systematic note, p. 157, subgenera defined, p. 160, (*O.*) *swani* **sp. nov.,** Maine, p. 161 figs., **Pettibone,** M. H. (**1**).

Orbiniidae Hartman, reviewed, p. 211, **Hartman,** O.—*O.* Hartm. defined, reviewed, p. 159, **Pettibone,** M. H. (**1**).

Orbiniinae **subfam. nov.,** Orbiniidae, p. 256, to incl. *Orbinia*, *Phylo*, *Haploscoloplos*, *Scoloplos*, *Orbiniella*, *Scolaricia*, *Naineris* and *Califia*, p. 255, **Hartman,** O.

? *Owenia lobopygidiata* Uschakov, Banda Trench, p. 73 fig., **Kirkegaard,** J. B.

Panthalis bicolor Grube, redescr., Senegal, p. 50 fig., **Fauvel,** P. & **Rullier,** F. (**1**).

Paralepidonotus indicus (Potts), S. Africa, p. 62 figs., **Day,** J. H.

Paraonidae Cerruti, reviewed, p. 309, key to genera and subgenera, p. 314, **Hartman,** O.

Paraonis Grube, defined, keys to spp., pp. 328, 324, *gracilis* (Tauber), New York, p. 330 figs., *gracilis oculata* **subsp. nov.,** California, p. 331 figs., *multibranchiata* **sp. nov.,** California, p. 332, *P.* (*Paraonides*) *lyra* Southern, California, p. 334, **Hartman,** O.—*P. fulgens* (Levins.) p. 268, *gracilis* Tauber, p. 269, Britain, **Southward,** E. C. (**2**).

Pelagobia Greeff defined, p. 107, *longicirrata* Greeff, Pacific, p. 107 figs., **Dales,** R. P. (**5**).

Phalacrophorus Greeff defined p. 109, *pictus* Gr. and *uniformis* Reib., Pacific, p. 109, **Dales,** R. P. (**5**).—*P. pictus* Greeff, N.W. Pacific, pl 274 figs., **Ushakov,** P. V. (**3**).

Phisidia aurea **sp. nov.,** Britain, p. 275 figs., **Southward,** E. C. (**2**).

Pholoë minuta Fabr., Britain, p. 258 figs., **Southward,** E. C. (**2**).

Phyllochaetopterus herdmani Willey, S. Africa, p. 100 fig., **Day,** J. H.

Phyllodoce malmgreni Grav. and (*Sphaerodoce*) *quadraticeps* Grube, morphol. notes, S. Africa, **Day,** J. H.—*P. madeirensis* Langerh., morphol. note, Senegal, p. 60, **Fauvel,** P. & **Rullier,** F. (**1**).

Phyllodocidae Grube, key to pelagic genera and spp., in Pacific, p. 156, **Dales,** R. P. (**5**).

Phylo, King. defined p. 260, key to spp., p. 262, *felix* Kingb., Mexico and California, p. 262 figs., *ornatus* Verrill, Atlantic and Pacific coats of U.S.A., p. 265 figs., **Hartman,** O.

Pilargis falcata **sp. nov.,** S. Africa, p. 70 figs., **Day,** J. H.

Plotohelmis Chamberlin defined, p. 125, *tenuis* (Apst.), Pacific, p. 125 figs., **Dales,** R. P. (**5**).

Podarke pallida (Clap.), Britain, p. 260, **Southward,** E. C. (**2**).

Polycirrus plumosus (Wolleb.), Britain, p. 277, **Southward,** E. C. (**2**).

Polydora normalis **sp. nov.** p. 97 figs., *hoplura* Clap. var. *inhaca* **var. nov.** p. 99 figs., S. Africa, **Day,** J. H.

(*Polynaineris*) **subgen. nov.,** *Naineris*, defined, type : *Naineris laevigata* (Grube), p. 161, **Pettibone,** M. H. (**1**).

Polynoë inhaca Day referred to *Allmaniella*, p. 62, **Day,** J. H.—*P.* (*Enipo*) *pavlovskii* **sp. nov.,** Far Eastern Seas, p. 170 figs., **Ushakov,** P. V. (**1**).

Pontodora pelagica Greeff, N.W. Pacific, p. 273 figs., **Ushakov,** P. V. (**3**).

Potamilla leptochaeta Southern, redescr. from paddy-fields, Viet-Nam, p. 160 figs., **Rullier,** F.

Praxillura longissima Arwids., Britain, p. 273, **Southward,** E. C. (**2**).

Rhodine loveni Malmgr. var. *gracilior* Tauber, Bay of Haifa, p. 215 figs., **Fauvel,** P. (**2**).

Rhynchonerella Costa defined, p. 130, *mobii* (Apst.) p. 131 figs., *angelini* (Kinberg) p. 133 figs., Pacific, **Dales,** R. P. (**5**).

Sagitella Wagn. defined, p. 147, *kowalevskii* Wagn., Pacific, p. 147 figs., **Dales,** R. P. (**5**).

Schistocomus hiltoni Chamberlin, redescr., S. Africa, p. 112, **Day,** J. H.

Scolarica Eisiq, systematic note, p. 295, list of spp., p. 252, **Hartman,** O.

Scoloplos Blainv. (s.s.) defined, key to spp., p. 280, *armiger* (Müller), California, p. 279 figs., *acmeceps* Chamberin, Alaska to Mexico, p. 282 figs., key to *S.* (*Leodamas*) spp., p. 285, (*L.*) *verax* Kinbg., S. America, p. 286 figs., (*L.*) *ohlini* (Ehlers), S. America and Mexico, p. 287 figs., (*L.*) *rubra* (Webster), N. Carolina and Florida, p. 291. figs., (*L.*) *dendrobranchus* **sp. nov.,** S, Australia, p. 291 figs., (*L.*) *fimbriatus* **sp. nov.,** S. Australia, p. 293 figs. **Hartman,** O.—*S.* Blainv. defined, subgenera defined, p. 160 (*S.*) *puget-tensis* **sp. nom. nov.** pro *elongata* Johnson, 1901, *nec* Quatref., Alaska to California, p. 162, (*S.*) *dayi* **sp. nom. nov.** pro *Orbinia dubia* Day, p. 162, (*S.*) *riseri,* Massachusetts, p. 163 figs., (*S.*) *schmitti* **sp. nov.,** N. Atlantic, p. 164 figs., **Pettibone,** M. H. (**1**).

Spio filicornis (Müll.) redescr., p. 49 figs., *goniocephala* **sp. nov.,** p. 53 figs. Sweden **Thulin,** G.

Staurocephalus neglectus Fauvel, Britain, p. 266, **Southward,** E. C. (**2**).

Stylarioides monroi **sp. nov.,** S. Africa, p. 103 figs., **Day,** J. H.

Tomopteridae Grube, taxonomic note, p. 136, key to genera and spp. in Pacific, p. 159, **Dales,** R. P. (**5**).

Tomopteris Eschscholtz, defined, p. 138, *nationalis* Apst., p. 139 figs., *pacifica* Izuka, p. 141 figs., *nisseni* Rosa, p. 141 fig., *elegans* Chun p. 142 figs., *septentrionalis* Steenstr., p. 145 figs., Pacific, **Dales,** R. P. (**5**).—*T. septentrionalis* Quatref. distribution in N.W. Pacific, p. 282 map, *elegans* Chun, p. 283 figs., (*Johnstonella*) *renata* Berkeley, p. 285 figs., (*J.*) *pacifica* Izuka, p. 285 fig., N.W. Pacific, **Ushakov,** P. V. (**3**).

Torrea Quatref. defined, p. 100, *candida* (Delle Chiaje), Pacific, p. 111 figs., **Dales,** R. P. (**5**).

Tavisiopsis Levinson defined, p. 148, *lobifera* Lev., Pacific, p. 148 figs., **Dales,** R. P. (**5**).—*T. lobifera* Lev., N.W. Pacific, p. 286 figs., **Ushakov,** P. V. (**3**).

Troglochaetus beranecki Delachaux, Rumania, p. 1035 fig., **Plesa,** C.

Typhloscolecidae Ulj., key to genera and spp. in Pacific, p. 161, **Dales,** R. P. (**5**).

Typhloscolex Busch defined, p. 146, *mülleri* Busch Pacific p. 146 figs., **Dales,** R. P. (**5**).

Vanadis Clap. defined, p. 115, *formosa* Clap. p. 117 figs., *crystallina* Greeff, p. 118 figs., *minuta* Treadw. p. 119 figs., *longissima* (Lev.) p. 121 figs., Pacific, **Dales,** R. P. (**5**).—*V. pacifica* **sp. nov.,** S. Kurile, p. 275 figs., **Ushakov,** P. V. (**3**).

Watelio Stop-Bowitz defined, p. 133, *gravieri* (Benham), Pacific, p. 134 figs., **Dales,** R. P. (**5**).

Zeppelinia dentata (Montic.), Britain, p. 272 figs., **Southward,** E. C. (**2**).

OLIGOCHAETA

Aelosoma hemprichi Ehrbg. redescr. from Japan, p. 161 figs., **Yamaguchi,** H.—*A. setosa* **sp. nov.,** Yugoslavia, p. 95 figs., **Georgevitch,** J. (**2**).

Allolobophora limicola Mich., N. America, p. 1 figs., **Gates,** G. E. (**3**).—*A. limicola* Mich., S.W. Scotland, p. 665 fig., **Guild,** W. J. McL.—*A.* **sp. nov. innom.,** Voronezh District,

Russia, p. 52, **Petrov,** V. S.

(*Allolobophora*) **subgen. nov.,** *Allolobophora*, defined, type : *A.* (*A.*) *chlorotica* (Sav.), p. 181, **Omodeo,** P. (**4**).

Bdellodrilus hexadonta **sp. nov.,** Yugoslavia, p. 14 figs., **Georgevitch,** J. (**1**).

Branchiobdella ochridensis p. 8 fig., *septadonta* p. 9 fig., *decidonta* p. 9 fig., *karamani* p. 10 fig., *cordis* p. 11 fig., *pentadonta* p. 11 fig., *segmentata* p. 12 fig., *unindentata* p. 13 fig., **spp. nov.,** Yugoslavia, **Georgevitch,** J. (**1**).

Cambarincola pleuridentata **sp. nov.** p. 16 figs., *dojranensis* Georgev. p. 16 figs., *odontias* Georgev. p. 17 figs., *hamata* **sp. nov.,** p. 18 figs., *cylindrica* **sp. nov.** p. 19 figs., Yugoslavia, **Georgevitch,** J. (**1**).

(*Cernosvitovia*) **subgen. nov.,** *Allolobophora*, defined, type : *A.* (*C.*) *rebeli* Rosa, p. 180, **Omodeo,** P. (**4**).

Clitellio arenarius (Müll.), Cimbrian Peninsula, p. 98 figs., **Bulow,** T. v.

Dendrobaena platyura var. *moravica* Prokšová, redescr. from Slovakia, p. 552 fig., **Zajonc,** L. (**2**).

(*Dendrobaena*) **subgen. nov.,** *Dendrobaena*, defined, type : *D.* (*D.*) *octaedra* (Sav.), p. 173, **Omodeo,** P. (**4**).

(*Dendrodrilus*) **subgen. nov.,** *Dendrobaena*, defined, type : *D.* (*D.*) *rubida* (Sav.), p. 175, **Omodeo,** P. (**4**).

Eisenia veneta Rosa var. *crassa* **var. nov.** p. 17, *veneta* var. *minuta*, **var. nov.** p. 18, *birsteini* **sp. nov.,** p. 19, Caucasus, **Malevich,** I. I.

Eiseninae **subfam. nov.,** Lumbricidae, defined p. 170, **Omodeo,** P. (**4**).

Eiseniona **gen. nov.,** Lumbricidae, defined, p. 188, type : *Allolobophora handlirschi* Rosa, p. 189, to incl. also *oliverae* (Rosa), *intermedia* (Mich.), *paradoxa* (Cogn.), *sine-poris* (Omodeo), p. 189, **Omodeo,** P. (**4**).

Enchytraeina **gen. nov.,** Enchytraeidae, type : *lutheri* **sp. nov.,** Cimbrian Peninsula, p. 95 figs., **Bulow,** T. v.

Enchytraeoides sphagnetorum (Vejd.), Cimbrian Peninsula, p. 85 figs., **Bulow,** T. v.

Enchytraeus aff. *spiculus* Leuckart, p. 92 figs., *capitatus* p. 93 figs., Cimbrian Peninsula, **Bulow,** T. v.

Eophila hypogea, **sp. nov.,** Caucasus, p. 20, **Malevič,** I. I.

Fridericia bulbosa (Rosa), p. 87 figs., *gracilis* **sp. nov.,** p. 89 figs., Cimbrian Peninsula, **Bulow,** T. v.

Henlea ventriculosa (Udek.), some redescr., p. 74, **Bulow,** T. v.

Henleanella perpusilla Friend, Kiel Bay, p. 75 figs., **Bulow,** T. v.

Hormogaster redii Rosa, p. 159, *pretiosa typica* Mich., p. 161, *pretios samnitica* Cogn., p. 162, morphol. notes, Italy, **Omodeo,** P. (**2**).

Hystericosoma chappuisi Mich., Yugolavia, p. 93 figs., **Georgevitch,** J. (**2**).

Limnodrilus udekemianus Clap. p. 98 figs., *hoffmeisteri* Clap. p. 99 figs., Cimbrian Peninsula, **Bulow,** T. v.

Lumbricidae, classification, **Omodeo,** P. (**4**).

Lumbricillus pagenstecheri (Ratzel) p. 77 figs., *henkingi* Ude p. 78 figs., *helgolandicus* Mich. p. 79 figs., *lineatus* (Müll.) p. 79, aff. *crassus* Clap. p. 80 figs., *balticus* **sp. nov.** p. 81 figs., *enteromorphae* **sp. nov.** p. 82 figs., Cimbrian Peninsula, **Bulow,** T. v.

Michaelsena **sp. nov. innom.,** Cimbrian Peninsula, p. 95, **Bulow,** T. v.

Microeophila Omodeo a subgenus of *Allolobophora*, p. 183, **Omodeo,** P. (**4**).

Nematogenia Eisen, systematics, p. 427, key to spp., p. 429, *magna* p. 430, *dominicana* p. 433, *montana* p. 436, *alba* p. 438, **spp. nov.,** Dominican Republic, **Gates,** G. E. (**4**).

Ocnerodrilidae, key to genera, p. 443, **Gates,** G. E. (**4**).

(*Octodrilus*) **subgen. nov.,** *Octolasium*, defined, type *O.* (*O.*) *complanatum* (Dugès), p. 177, **Omodeo,** P. (**4**).

Octolasium montanum Cernosv. redescr. from Moravia, pp. 165, 166 fig., **Zajonc,** I. (**1**).

(*Octolasium*) **subgen. nov.,** *Octolasium*, defined, type : *O.* (*O.*) *lacteum* (Oerley), p. 176, **Omodeo,** P. (**4**).

Plutellus macnabi **sp. nov.,** Washington State, p. 49 figs., **McKey-Fender,** D.

Pterodrilus dentata p. 13 figs., *aliata* p. 14 fig., **spp. nov.,** Yugoslavia, **Georgevitch,** J. (**1**).

Pygmaeodrilus Mich., redefined, p. 449, systematics, p. 465, *nabugaboensis* **sp. nov.,** Lake Nabugabo, p. 451 figs., *worthingtoni* **sp. nov.,** Lake George, p. 456 figs., *affinis* Mich. redescr., Uganda, p. 458 figs., E. Africa, **Jamieson,** B. G. M.

Ramiella americana **sp. nov.,** Guatemala, p. 1 figs., **Gates,** G. E. (**2**).

Tubifex barbatus (Grube), Cimbrian Peninsula, p. 100 figs., **Bulow,** T. v.

Xironogiton tridens **sp. nov.** p. 19 figs., *latens* **sp. nov.** p. 20 fig., *dolicoderos* Georgev. p. 21 figs., *litradonta* **sp. nov.** p. 22 fig., *pulcherimus* Moore p. 23 figs., Yugoslavia, **Georgevitch,** J. (**1**).

HIRUDINEA

Americobdella **gen. nom. nov.** pro *Cardea* Blanch., defined, p. 284, **Caballero y C.,** E. (**2**).

Americobdellidae **fam. nom. nov.** pro Cardeidae Ringuelet, defined, p. 284, **Caballero y C.,** E. (**2**).

Americobdellinae **subfam. nom. nov.** pro Cardeinae Ringuelet, defined, p. 285, **Caballero y C.,** E. (**2**).

Branchelliinae **subfam. nov.,** Piscicolidae, defined, to incl. *Branchellion* Sav., *Oceanobdella* Caballero and *Poecilobdella* Blanch., p. 281, **Caballero y C.,** E. (**2**).

Erpobdellinae **subfam. nom. nov.** pro Herpobdellinae, defined, p. 283, **Caballero y C.,** E. (**2**).

Glossiphoniinae **subfam. nom. nov.** pro Glossosiphoniinae Pinto, defined, p. 280, **Caballero y C.,** E. (**2**).

Glossiphonioidea **superfam. nom. nov.** pro Glossosiphonioidea Pinto, defined, p. 280, **Caballero y C.,** E. (**2**).

Hirudinaria Whitman *nec* Scacchi syn. of *Poecilobdella*, defined, p. 282, **Caballero y C.,** E. (**2**).

Oceanobdella **gen. nom. nov.** pro *Abranchus* Johansson *nec* Harlan, defined, p. 282, **Caballero y C.,** E. (**2**).

Piscicolinae **subfam. nom. nov.** pro Ichthyobdellinae Leigh-Sharpe, defined, p. 281, **Caballero y C.,** E. (**2**).

GEPHYREA

Aspidosiphon mülleri Dies., some redescr., p. 197, *elegans* (Cham. & Eysenh.) p. 198 fig., Israel, **Wesenberg-Lund,** E. (**1**).—*A. elegans* Cham. & Eysenh., p. 7, *klunzingeri* Sel. & de Man, p. 8 fig., Red Sea, **Wesenberg-Lund,** E. (**2**).—*A. mülleri* Diesing, p. 4, *venabulum* Sel. & de Man, p. 5 fig., *hartmeyeri* W. Fischer, p. 7 fig., W. Africa, **Wesenberg-Lund,** E. (**3**).

Golfingia vulgaris (de Blainv.), some redescr., Red Sea, p. 4, **Wesenberg-Lund,** E. (**2**).

Ochetosoma erythrogrammon Leuck. & Rüpp., Red Sea, p. 9, fig., **Wesenberg-Lund,** E. (**2**).

Phascolosoma granulatum Leuck., Israel, p. 194 figs., **Wesenberg-Lund,** E. (**1**).—*P. scolops* (Sel. & de Man) p. 5, *granulatum* Leuck. p. 5, *pacificum* Keferst. p. 6, *nigrescens* Keferst., p. 7, Red Sea. **Wesenberg-Lund,** E. (**2**).—*P. scolops* (Sel. & de Man), p. 2, *agassizi* Keferst. p. 3, W. Africa, **Wesenberg-Lund,** E. (**3**).

Platylobostoma **gen. nov.,** Echiuroidea, type : *glaucum* **sp. nov.,** W. Africa, p. 8 figs., **Wesenberg-Lund,** E. (**3**).

Siphonosoma (*Dasmosiphon*) *cumanense* (Keferst.), some redescr., Red Sea, p. 2, **Wesenberg-Lund,** E. (**2**).

Sipunculus nudus L., some redescr., Red Sea, p. 2, **Wesenberg-Lund,** E. (**2**).—*S. titubans* Sel. & de Man, West Africa, p, 1, **Wesenberg-Lund,** E. (**3**).

CONODONTA

†*Angulodus walrathi* (Hibb.), Austria, p. 36 fig., **Flügel,** H. & **Ziegler,** W.

†*Bryantodus planus* Brans. & Mehl p. 37 fig., **sp. nov. innom.** p. 37 fig., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Gnathodus b. bilineatus* (Roundy) p. 38 figs., *bilineatus semiglaber* Bischoff. p. 39 figs., *c. commutatus* (Brans. & Mehl) p. 39 figs., *c. nodosus* Bischoff p. 40 fig., *c. punctatus* Bischoff p. 40, *girtyi* Hass p. 40 figs., *texanus* Roundy p. 41 figs., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Hindeodella germana* Holmes p. 41 fig., *ibergensis* Bischoff p. 42, figs., *segaformis* Bischoff p. 42 fig., *undata* Brans. & Mehl p. 43 fig., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Lonchodina nitela* Huddle p. 44 fig., *projecta* Ulrich & Bassler p. 44 figs., *torta* Huddle p. 44 fig., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Ozarkodina arcuata* (Brans. & Mehl)? p. 44 fig., *delicatula* (Stauffer & Plummer) p. 45 fig., *roundyi* (Hass) p. 45 figs., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Polygnathus communis* Brans. & Mehl p. 46 fig., *inornata* E. R. Branson p. 46 fig., *orthoconstricta* Thomas p. 46 figs., *styriaca* **sp. nov.,** Ziegler, p. 47 figs., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Prioniodina bischoffi* **sp. nov.,** Ziegler, p. 48 fig., *cassilaris* (Brans. & Mehl) p. 49 figs., cf. *ligo* (Hass) p. 49 fig., *prona* (Huddle) p. 49 fig., *subcurvata* Ulr. & Bassl. p. 50 fig., Devonian/Carboniferous, Austria, **Flügel,** H. & **Ziegler,** W.

†*Scaliognathus anchoralis* Brans. & Mehl, Austria, p. 51 figs., **Flügel,** H. & **Ziegler,** W.

†*Spathognathodus subrectus* (Holmes), Austria, p. 53 fig., **Flügel,** H. & **Ziegler,** W.